

```
59
       60
               62
                   63
                       64
                           69
                              70
                                   71
                                       72
           61
chain bonds :
    2-49 4-59 4-69 5-50
                          9-52 10-60 10-70 12-53 14-54 16-61
    18-55 21-56 22-62 22-72 23-57 42-43 43-63 43-67 43-68
ring bonds :
    1-2 1-6
             2-3 3-4
                       3-25 4-5 5-6
                                      6-25
                                            7-8
                                                7-12 8-9 8-28 9-10
                                                                        10-11
    11-12 11-28
19-24 20-21
                 13-14
                        13-18
                                      15-16
                               14-15
                                             15-31
                                                   16-17 17-18
                                                                 17-31
    19-24
          20-21
                20-34
                        21-22
                               22-23
                                      23-24
                                             24 - 34
exact/norm bonds :
    2-49 4-5 4-69
                   5-50 9-52 10-11
                                       10-70
                                                    14 - 54
                                             12-53
                                                           15-31
                                                                  16-17
    16-71
         17-31 18-55 20-34
                               21-56
                                      22-23
                                             22-72
                                                   23-57
                                                          24-34
                                                                 42-43
                                                                        43-67
    43-68
exact bonds :
    1-2 1-6 2-3 3-4 3-25 4-59 5-6 6-25 7-8 7-12
                                                       8-9 8-28 9-10
    10-60 11-12 11-28 13-14 13-18 14-15 15-16 16-61 17-18 19-20
                                                                        19-24
    20-21 21-22
                 22-62
                        23-24
isolated ring systems :
   containing 1 : 7 : 13 : 19 :
G1: [*1], [*2], [*3], [*4]
G2:H,[*5]
G3:H,[*6]
Match level :
   1:Atom 2:Atom 3:Atom
                           4:Atom
                                   5:Atom
                                                 7:Atom 8:Atom
```

12

13

14

15

16

Best Available (

17

18

19

20

21

ring nodes : 1 2 3

22 23 24

ring/chain nodes :

10:Atom

5

25

7

8

31

6

28

9

34

10

11

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS 45:CLASS 49:CLASS 50:CLASS 55:CLASS 56:CLASS 57:CLASS 59:CLASS 63:CLASS 64:CLASS 67:CLASS 68:CLASS 52:CLASS 53:CLASS 54:CLASS 60:CLASS 61:CLASS 69:CLASS 70:CLASS 62:CLASS 71:CLASS 72:CLASS 45:

Generic attributes :

: Saturated Saturation Number of Carbon Atoms : less than 7

Element Count :

Node 45: Limited

C,C1-6

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

L3 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L4 SCREEN CREATED

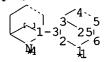
=>

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G1

chain nodes :
42 43
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 28 31 34
ring/chain nodes :
44
chain bonds :
42-43 43-44
ring bonds :
1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12
11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21
20-34 21-22 22-23 23-24 24-34

## 10/761,977

exact/norm bonds:
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12 13-14 13-18
14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21 20-34 21-22 22-23
23-24 24-34 42-43
exact bonds:
3-25 6-25 8-28 11-28 43-44
isolated ring systems:
containing 1: 7: 13: 19:

G1: [\*1], [\*2], [\*3], [\*4]

### Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS

L5 STRUCTURE UPLOADED

=> que L5 AND L3 NOT L4

L6 QUE L5 AND L3 NOT L4

=> d 16

L6 HAS NO ANSWERS

L3 SCR 1839

L4 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L5 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation. L6  $\,$  QUE  $\,$  L5 AND L3 NOT L4  $\,$ 

=> s 16 sss sam SAMPLE SEARCH INITIATED 17:19:06 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 81051 TO ITERATE

1.2% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01 6 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*
BATCH \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS: EXCEEDS 1000000 PROJECTED ANSWERS: EXCEEDS 8403

L7 6 SEA SSS SAM L5 AND L3 NOT L4

=> => ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

L8 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L9 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10761977 (sp 1).str

















 $\mathsf{G}_1$ 

chain nodes : 42 43 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 28 31 34 44 46 47 48 49 50 chain bonds : 42-43 43-44 ring bonds : 1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12 11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21 20-34 21-22 22-23 23-24 24-34 44-46 44-50 46-47 47-48 48-49 49-50 exact/norm bonds :  $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 7-8 \quad 7-12 \quad 8-9 \quad 9-10 \quad 10-11 \quad 11-12 \quad 13-14 \quad 13-18$ 14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21 20-34 21-22 22-23 23-24 24-34 42-43

exact bonds :

3-25 6-25 8-28 11-28 43-44

normalized bonds :

44-46 44-50 46-47 47-48 48-49 49-50

isolated ring systems :
containing 1 : 7 : 13 : 19 :

G1: [\*1], [\*2], [\*3], [\*4]

#### Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS 44:CLASS 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom

L10 STRUCTURE UPLOADED

=> que L10 AND L8 NOT L9

L11 QUE L10 AND L8 NOT L9

=> d 111

L11 HAS NO ANSWERS

L8 SCR 1839

L9 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L10 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

=> s 111 sss sam

SAMPLE SEARCH INITIATED 17:21:14 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 50419 TO ITERATE

2.0% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01 6 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*
BATCH \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS: 994990 TO 1021770 PROJECTED ANSWERS: 5007 TO 7093

L12 6 SEA SSS SAM L10 AND L8 NOT L9

=> => ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

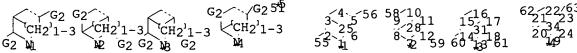
=> screen 1839

#### L13 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

#### L14 SCREEN CREATED

=>
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$$\begin{array}{c}
42 \\
49^{50} \\
49^{144} \\
48_{47} \\
46
\end{array}$$

chain nodes : 42 43 51 55 56 58 59 60 61 62 63 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 28 31 34 44 46 47 48 49 50 chain bonds : 2-55 5-56 9-58 12-59 14-60 18-61 21-62 23-63 42-43 43-44 ring bonds : 1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12 11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21 20-34 21-22 22-23 23-24 24-34 44-46 44-50 46-47 47-48 48-49 49-50 exact/norm bonds : 1-2 1-6 2-3 2-55 3-4 4-5 5-6 5-56 7-8 7-12 8-9 9-10 9-58 10-11 11-12 12-59 13-14 13-18 14-15 14-60 15-16 15-31 16-17 17-18 17-31 19-24 20-21 20-34 21-22 21-62 22-23 23-24 23-63 24-34 42-43 18-61 19-20 exact bonds : 3-25 6-25 8-28 11-28 43-44 normalized bonds : 44-46 44-50 46-47 47-48 48-49 49-50 isolated ring systems :

containing 1 : 7 : 13 : 19 :

G1:[\*1],[\*2],[\*3],[\*4]

G2:H,[\*5]

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS 44:CLASS 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:CLASS 55:CLASS 56:CLASS 58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS Generic attributes:

51:

Saturation : Saturated Number of Carbon Atoms : less than 7

Element Count : Node 51: Limited C,C1-6

L15 STRUCTURE UPLOADED

=> que L15 AND L13 NOT L14

L16 QUE L15 AND L13 NOT L14

=> d 116

L16 HAS NO ANSWERS

L13 SCR 1839

L14 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L15 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation. L16  $\,$  QUE  $\,$  L15 AND L13 NOT L14  $\,$ 

=> s 116 sss sam SAMPLE SEARCH INITIATED 17:26:39 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 50419 TO ITERATE

2.0% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

3 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*

BATCH \*\*INCOMPLETE\*\*

PROJECTED ITERATIONS: 994990 TO 1021770 PROJECTED ANSWERS: 2288 TO 3762

L17 3 SEA SSS SAM L15 AND L13 NOT L14

=> => ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

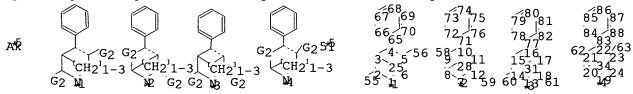
L18 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L19 SCREEN CREATED

=>

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$$\begin{array}{c}
G_1 \\
49^{50} \cancel{44} \\
48_{47}^{46}
\end{array}$$

chain nodes:
42 43 51 55 56 58 59 60 61 62 63
ring nodes:

1 2 3 4 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 28 34 31 44 46 47 48 49 50 65 66 67 68 69 70 71 72 73 74 79 80 81 82 83 84 85 86 87

```
chain bonds :
2-55 4-65 5-56 9-58 10-71 12-59 14-60 16-77 18-61 21-62 22-83 23-63
42-43 43-44
ring bonds :
1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10
                                                               10-11
                                                               19-24
11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20
                                            46-47
20-34 21-22 22-23 23-24 24-34
                               44-46
                                     44-50
                                                   47-48
                                                        48-49
                                                                49-50 65-66
                                           72-73
65-70 66-67 67-68 68-69 69-70
                               71-72
                                                        74-75
                                                                75-76
                                                                      77-78
                                      71-76
                                                 73-74
77-82 78-79 79-80 80-81 81-82
                               83-84
                                     83-88 84-85 85-86
                                                        86-87
                                                                87-88
exact/norm bonds :
1-2 1-6 2-3 2-55 3-4 4-5 5-6 5-56
                                     7-8 7-12 8-9 9-10 9-58
                                                                10-11 11-12
12-59 13-14 13-18 14-15 14-60 15-16 15-31 16-17 17-18 17-31
19-24 20-21 20-34 21-22 21-62 22-23 23-24 23-63 24-34 42-43
exact bonds :
3-25 4-65 6-25 8-28 10-71 11-28 16-77 22-83 43-44
normalized bonds :
44-46 44-50 46-47 47-48
                        48-49
                               49-50 65-66 65-70 66-67 67-68
                                                               68-69 69-70
71-72 71-76 72-73 73-74
                        74-75
                               75-76 77-78 77-82 78-79 79-80
                                                               80-81 81-82
83-84 83-88 84-85 85-86 86-87 87-88
isolated ring systems :
containing 1 : 7 : 13 : 19 :
G1: [*1], [*2], [*3], [*4]
G2:H, [*5]
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom
42:CLASS 43:CLASS 44:CLASS 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:CLASS
55:CLASS 56:CLASS 58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS
65:Atom 66:Atom 67:Atom 68:Atom 69:Atom 70:Atom 71:Atom 72:Atom
74:Atom 75:Atom 76:Atom 77:Atom 78:Atom 79:Atom 80:Atom 81:Atom 82:Atom
83:Atom 84:Atom 85:Atom 86:Atom 87:Atom 88:Atom
Generic attributes :
51:
Saturation
                    : Saturated
Number of Carbon Atoms : less than 7
Element Count :
Node 51: Limited
   C,C1-6
```

L20 STRUCTURE UPLOADED

=> que L20 AND L18 NOT L19

L21 QUE L20 AND L18 NOT L19

=> d 121 L21 HAS NO ANSWERS

## 10/761,977

3 ANSWERS

L18 SCR 1839

L19 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L20 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation. L21 QUE L20 AND L18 NOT L19

=> s 121 sss sam

SAMPLE SEARCH INITIATED 17:31:42 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 3336 TO ITERATE

30.0% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 63256 TO 70184
PROJECTED ANSWERS: 11 TO 389

L22 3 SEA SSS SAM L20 AND L18 NOT L19

=> => ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

L23 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L24 SCREEN CREATED

=>

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```
chain nodes :
42 43 51 55 56 58 59 60 61 62 63
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 28 31 34 44 46 47 48 49 50
ring/chain nodes :
65 66 67 68
chain bonds :
2-55 4-65 5-56 9-58 10-66 12-59 14-60 16-67 18-61 21-62 22-68 23-63
42-43 43-44
ring bonds :
1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12
11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21
20-34 21-22 22-23 23-24 24-34 44-46 44-50 46-47 47-48 48-49 49-50
exact/norm bonds :
                                                             10-11 11-12
1-2 1-6 2-3 2-55 3-4 4-5 5-6 5-56 7-8 7-12 8-9 9-10 9-58
12-59 13-14 13-18 14-15 14-60 15-16 15-31 16-17 17-18 17-31
                                                            18-61 19-20
19-24 20-21 20-34 21-22 21-62 22-23 23-24 23-63 24-34 42-43
exact bonds :
3-25 4-65 6-25 8-28 10-66 11-28 16-67 22-68 43-44
normalized bonds :
44-46 44-50 46-47 47-48 48-49 49-50
isolated ring systems :
containing 1 : 7 : 13 : 19 :
```

G1:[\*1],[\*2],[\*3],[\*4]

# G2:H,[\*5]

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS 44:CLASS 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:CLASS 55:CLASS 56:CLASS 58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS

65:CLASS 66:CLASS 67:CLASS 68:CLASS

Generic attributes :

51:

Saturation : Saturated Number of Carbon Atoms : less than 7

Element Count : Node 51: Limited C,C1-6

L25 STRUCTURE UPLOADED

=> que L25 AND L23 NOT L24

L26 QUE L25 AND L23 NOT L24

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

L27 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L28 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10761977 (sp 4).str

```
chain nodes :
42 43 51 55 56 58 59 60 61 62 63
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 28 31 34 44 46 47 48 49 50
ring/chain nodes :
65 66 67 68
chain bonds :
2-55 4-65 5-56 9-58 10-66 12-59 14-60 16-67 18-61 21-62 22-68 23-63
42-43 43-44
ring bonds :
1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12
11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21
20-34 21-22 22-23 23-24 24-34 44-46 44-50 46-47 47-48 48-49 49-50
exact/norm bonds :
1-2 1-6 2-3 2-55 3-4 4-5 5-6 5-56 7-8 7-12 8-9 9-10 9-58
                                                                   10-11 11-12
12 - 59 \quad 13 - 14 \quad 13 - 18 \quad 14 - 15 \quad 14 - 60 \quad 15 - 16 \quad 15 - 31 \quad 16 - 17 \quad 17 - 18 \quad 17 - 31 \quad 18 - 61 \quad 19 - 20
19-24 20-21 20-34 21-22 21-62 22-23 23-24 23-63 24-34 42-43
exact bonds :
3-25 4-65 6-25 8-28 10-66 11-28 16-67 22-68 43-44
normalized bonds :
44-46 44-50 46-47 47-48 48-49 49-50
isolated ring systems :
containing 1 : 7 : 13 : 19 :
```

G1:[\*1],[\*2],[\*3],[\*4]

### G2:H, [\*5]

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS 44:CLASS 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:CLASS 55:CLASS 56:CLASS 58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS

65:CLASS 66:CLASS 67:CLASS 68:CLASS

Generic attributes :

Saturation : Saturated Number of Carbon Atoms : less than 7

Element Count : Node 51: Limited C,C1-6

L29 STRUCTURE UPLOADED

=> que L29 AND L27 NOT L28

L30 QUE L29 AND L27 NOT L28

=> d 130

L30 HAS NO ANSWERS

L27 SCR 1839

L28 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L29

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation. L30 QUE L29 AND L27 NOT L28

=> s 130 sss sam

L31

SAMPLE SEARCH INITIATED 17:34:39 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 11494 TO ITERATE

1000 ITERATIONS 8.7% PROCESSED INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) 3 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* BATCH \*\*COMPLETE\*\* 223457 TO PROJECTED ITERATIONS: 236303

PROJECTED ANSWERS: 337 TO 1041 3 SEA SSS SAM L29 AND L27 NOT L28

=> => ....Testing the current file.... screen

#### ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

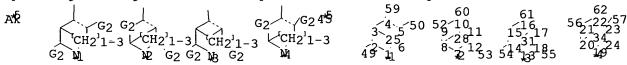
### L32 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

### L33 SCREEN CREATED

=>

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 $G_{3}^{G_{1}}$   $G_{3}^{G_{2}}$   $G_{3}^{G_{2}}$   $G_{3}^{G_{2}}$   $G_{3}^{G_{2}}$   $G_{3}^{G_{2}}$   $G_{3}^{G_{2}}$   $G_{3}^{G_{2}}$ 

chain nodes : 42 43 45 49 50 52 53 54 55 56 57 67 68 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 28 31 34 ring/chain nodes : 59 60 61 62 63 64 chain bonds : 2-49 4-59 5-50 9-52 10-60 12-53 14-54 16-61 18-55 21-56 22-62 23-57 42-43 43-63 43-67 43-68 ring bonds : 1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12 11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20 20-34 21-22 22-23 23-24 24-34 19-24 20-21 exact/norm bonds : 1-2 1-6 2-3 2-49 3-4 4-5 5-6 5-50 7-8 7-12 8-9 9-10 9-52 10-11 11-12 

## 10/761,977

exact bonds : 3-25 4-59 6-25 8-28 10-60 11-28 16-61 22-62 43-63 isolated ring systems : containing 1 : 7 : 13 : 19 : G1: [\*1], [\*2], [\*3], [\*4] G2:H,[\*5] G3:H,[\*6] Match level: 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS 45:CLASS 49:CLASS 50:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 67:CLASS 68:CLASS Generic attributes : 45: Saturation : Saturated Number of Carbon Atoms : less than 7 Element Count : Node 45: Limited C,C1-6 L34 STRUCTURE UPLOADED => que L34 AND L32 NOT L33 L35 QUE L34 AND L32 NOT L33 => d 135L35 HAS NO ANSWERS L32 SCR 1839 L33 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047 L34 STR \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \* Structure attributes must be viewed using STN Express query preparation. QUE L34 AND L32 NOT L33 L35  $\Rightarrow$  s 135 sss sam SAMPLE SEARCH INITIATED 17:39:36 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 22588 TO ITERATE

4.4% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

3 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

442768 TO 460752

PROJECTED ANSWERS:

862 TO 1848

L36

3 SEA SSS SAM L34 AND L32 NOT L33

=> => ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

L37 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L38 SCREEN CREATED

Uploading C:\Program Files\Stnexp\Queries\10761977 (sp 6).str

69<sup>59</sup>

<del>رب</del>6

69

42

chain nodes :

42 43 45 49 50 52 53 54 55 56 57 67 68

ring nodes :

ring/chain nodes :

59 60 61 62 63 64 69 70 71 72

chain bonds :

## 10/761,977

```
2-49 4-59 4-69 5-50 9-52 10-60 10-70 12-53 14-54 16-61 16-71 18-55
21-56 22-62 22-72 23-57 42-43 43-63 43-67 43-68
ring bonds :
1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12
11-28 \quad 13-14 \quad 13-18 \quad 14-15 \quad 15-16 \quad 15-31 \quad 16-17 \quad 17-18 \quad 17-31 \quad 19-20 \quad 19-24 \quad 20-21
20-34 21-22 22-23 23-24 24-34
exact/norm bonds :
1-2 1-6 2-3 2-49 3-4 4-5 4-69 5-6 5-50 7-8 7-12 8-9 9-10
                                                                       9-52 10-11
10-70 11-12 12-53 13-14 13-18 14-15 14-54 15-16 15-31 16-17
                                                                       16-71 17-18
17-31 18-55 19-20 19-24 20-21 20-34 21-22 21-56 22-23 22-72 23-24 23-57
24-34 42-43 43-67 43-68
exact bonds :
3-25 4-59 6-25 8-28 10-60 11-28 16-61 22-62 43-63
isolated ring systems:
containing 1 : 7 : 13 : 19 :
G1:[*1],[*2],[*3],[*4]
G2:H, [*5]
G3:H, [*6]
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom
42:CLASS 43:CLASS 45:CLASS 49:CLASS 50:CLASS 52:CLASS 53:CLASS 54:CLASS
55:CLASS 56:CLASS 57:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS
                                                                       63:CLASS
64:CLASS 67:CLASS 68:CLASS 69:CLASS 70:CLASS 71:CLASS 72:CLASS
Generic attributes :
45:
Saturation
                       : Saturated
Number of Carbon Atoms : less than 7
Element Count :
Node 45: Limited
    C,C1-6
L39
        STRUCTURE UPLOADED
=> que L39 AND L37 NOT L38
L40 QUE L39 AND L37 NOT L38
=> d 140
L40 HAS NO ANSWERS
L37
L38
                SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047
L39
```

<sup>\*</sup> STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

## 10/761,977

Structure attributes must be viewed using STN Express query preparation. L40  $\,$  QUE  $\,$  L39 AND  $\,$  L37 NOT  $\,$  L38

=> s 140 sss sam SAMPLE SEARCH INITIATED 17:43:11 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 22588 TO ITERATE

4.4% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 442768 TO 460752 PROJECTED ANSWERS: 166 TO 736

L41 1 SEA SSS SAM L39 AND L37 NOT L38

=> => ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1839

L42 SCREEN CREATED

=> screen 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L43 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10761977 (sp 7).str

```
chain nodes :
42 43 45 49 50 52 53 54 55 56 57 67 68
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 28 31 34
ring/chain nodes :
59 60 61 62 63 64 69 70 71 72
chain bonds :
2-49 4-59 4-69 5-50 9-52 10-60 10-70 12-53 14-54 16-61 16-71 18-55
21-56 22-62 22-72 23-57 42-43 43-63 43-67 43-68
ring bonds :
1-2 1-6 2-3 3-4 3-25 4-5 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-11 11-12
11-28 13-14 13-18 14-15 15-16 15-31 16-17 17-18 17-31 19-20 19-24 20-21
20-34 21-22 22-23 23-24 24-34
exact/norm bonds :
2-49 4-5 4-69 5-50 9-52 10-11 10-70 12-53 14-54 15-31 16-17 16-71 17-31
18-55 20-34 21-56 22-23 22-72 23-57 24-34 42-43 43-67 43-68
exact bonds :
1-2 1-6 2-3 3-4 3-25 4-59 5-6 6-25 7-8 7-12 8-9 8-28 9-10 10-60 11-12
11-28 13-14 13-18 14-15 15-16 16-61 17-18 19-20 19-24 20-21 21-22 22-62
23-24 43-63
isolated ring systems :
containing 1 : 7 : 13 : 19 :
```

Page 19

G1:[\*1],[\*2],[\*3],[\*4]

G2:H,[\*5]

G3:H,[\*6]

## 10/761,977

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 28:Atom 31:Atom 34:Atom 42:CLASS 43:CLASS 45:CLASS 49:CLASS 50:CLASS 52:CLASS 53:CLASS 54:CLASS

55:CLASS 56:CLASS 57:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS

64:CLASS 67:CLASS 68:CLASS 69:CLASS 70:CLASS 71:CLASS 72:CLASS

Generic attributes :

45:

Saturation : Saturated Number of Carbon Atoms : less than 7

Element Count : Node 45: Limited C,C1-6

L44 STRUCTURE UPLOADED

=> que L44 AND L42 NOT L43

L45 QUE L44 AND L42 NOT L43

=> d 145

L45 HAS NO ANSWERS

L42 SCR 1839

L43 SCR 2016 OR 2026 OR 2039 OR 2040 OR 2045 OR 2047

L44 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Structure attributes must be viewed using STN Express query preparation. L45  $\,$  QUE  $\,$  L44 AND L42 NOT L43  $\,$ 

=> s 145 sss sam

SAMPLE SEARCH INITIATED 17:47:51 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 16584 TO ITERATE

6.0% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 323969 TO 339391 PROJECTED ANSWERS: 318 TO 1008

L46 2 SEA SSS SAM L44 AND L42 NOT L43

=> => s 145 sss ful

FULL SEARCH INITIATED 17:48:30 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 326669 TO ITERATE

2 ANSWERS

1439 ANSWERS

100.0% PROCESSED 326669 ITERATIONS

SEARCH TIME: 00.00.06

L47 1439 SEA SSS FUL L44 AND L42 NOT L43

=> => s 147

L48 187 L47

=> s cough?

L49 5176 COUGH?

=> s orl?

L50 4568 ORL?

=> s opioid?

L51 38671 OPIOID?

=> s tussiv? or antitussiv?

55 TUSSIV?

3131 ANTITUSSIV?

L52 3159 TUSSIV? OR ANTITUSSIV?

=> s nocicept?

L53 10087 NOCICEPT?

=> s 149 or 150 or 151 or 152 or 153

L54 56671 L49 OR L50 OR L51 OR L52 OR L53

=> s 148 and 154

L55 31 L48 AND L54

=> d 155 1-31 bib, ab, hitstr

```
ANSWER 1 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
L55
AN
     2005:162035 CAPLUS
DN
     142:233377
ΤI
     Pharmaceutical composition and method using a combination of an
     opioid receptor antagonist and an \alpha 2\delta ligand for the
     prevention and treatment of addiction in a mammal
IN
     Coe, Jotham Wadsworth; Iredale, Philip A.; McHardy, Stanton Furst; McLean,
     Stafford
PA
     Pfizer Inc., USA
     U.S. Pat. Appl. Publ., 15 pp.
SO
     CODEN: USXXCO
DT
     Patent
LΑ
     English
FAN.CNT 1
                        KIND
     PATENT NO.
                               DATE
                                            APPLICATION NO.
                                                                  DATE
                         ____
                                            _____
                                           ขึ้S 2004-870821
ΡI
    US 2005043345
                               20050224
                         A1
                                                                  20040617
                                           ₩O 2004-IB2602
     WO 2005018670
                         Α1
                               20050303
                                                                  20040809
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
        W:
             CN, CO, CR, CU, Ck, DE, DK, DM,
                                           DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
        SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
PRAI US 2003-497372P
                         Ρ
                                20030822
     Pharmaceutical compns. are disclosed for the treatment of alc. or cocaine
     dependence or addiction, tobacco dependence or addiction, reduction of alc.
     withdrawal symptoms or aiding in the cessation or lessening of alc. use or
     substance abuse or other behavioral dependencies including gambling. The
     pharmaceutical compns. are comprised of a therapeutically effective
     combination of an opioid receptor antagonist and an
     \alpha 2\delta ligand and a pharmaceutically acceptable carrier.
     method of using these compds. is also disclosed.
IT
     778582-19-7 778582-23-3 778582-27-7
     778582-32-4 778582-34-6 778582-60-8
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (opioid receptor antagonist-\alpha 2\delta ligand
        combination for prevention and treatment of addiction)
     778582-19-7 CAPLUS
RN
     Methanesulfonamide, N-[3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3-
CN
     azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)
```

RN 778582-23-3 CAPLUS

CN Benzamide, 3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-27-7 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O \\ \parallel \\ O \\ O \\ O \\ \end{array}$$

RN 778582-32-4 CAPLUS

CN Ethanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & &$$

RN 778582-34-6 CAPLUS

CN Benzamide, 3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \begin{array}{c} \text{O} \\ \text{II} \\ \text{C-NH}_2 \end{array} \end{array}$$

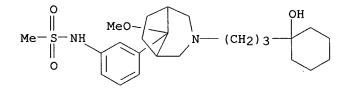
RN 778582-60-8 CAPLUS

CN Benzamide, 3-[3-[(1-hydroxy-3-phenylcyclobutyl)methyl]-8-methoxy-3-

azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{OH} \\ & \text{N-CH}_2 \\ & \text{Ph} \\ & \text{O} \end{array}$$

```
L55
     ANSWER 2 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     2005:160837 CAPLUS
DN
     142:233372
     Pharmaceutical composition using a combination of an opioid
TТ
     receptor antagonist and a CB-1 receptor antagonist for the prevention and
     treatment of addiction in a mammal
IN
     Coe, Jotham Wadsworth; Iredale, Philip A.; McHardy, Stanton Furst; McLean,
     Stafford
PA
     Pfizer Inc, USA
     U.S. Pat. Appl. Publ., 25 pp.
SO
     CODEN: USXXCO
DT
     Patent
LA
     English
FAN.CNT 1
                          KIND
                                 DATE
                                              APPLICATION NO.
                                                                      DATE
     PATENT NO.
                                                                      20040617
                                 20050224
                                              US 2004-870209
PI
     US 2005043327
                           A1
                                             WO 2004-IB2596
                                                                      20040809
     WO 2005018645
                           A1
                                 20050303
             AE, AG, AL, AM, AIT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, PM, DZ, EC, EE, EG, ES, FI, GB, GD,
                                          IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
PRAI US 2003-496803P
                           Ρ
                                 20030821
     Pharmaceutical compns. are disclosed for the treatment of alc. or cocaine
     dependence or addiction, tobacco dependence or addiction, reduction of alc.
     withdrawal symptoms or aiding in the cessation or lessening of alc. use or
     substance abuse or other behavioral dependencies including gambling. The
     pharmaceutical compns. are comprised of a therapeutically effective
     combination of an opioid receptor antagonist and a CB-1 receptor
     antagonist and a pharmaceutically acceptable carrier. The method of using
     these compds. is also disclosed.
     778582-19-7 778582-23-3 778582-27-7
TT
     778582-32-4 778582-34-6 778582-60-8
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
         (opioid receptor antagonist-CB-1 receptor antagonist
        combination for prevention and treatment of addiction)
RN
     778582-19-7 CAPLUS
     Methanesulfonamide, N-[3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3-
CN
     azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)
```



RN 778582-23-3 CAPLUS

CN Benzamide, 3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-27-7 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \begin{array}{c|c} \text{O} & \\ \text{II} \\ \text{O} \end{array} \\ \text{OMe} \end{array}$$

RN 778582-32-4 CAPLUS

CN Ethanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-y1)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-y1]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & &$$

RN 778582-34-6 CAPLUS

CN Benzamide, 3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \begin{array}{c} \text{O} \\ \text{II} \\ \text{C-NH}_2 \end{array} \end{array}$$

RN 778582-60-8 CAPLUS

CN Benzamide, 3-[3-[(1-hydroxy-3-phenylcyclobutyl)methyl]-8-methoxy-3-

azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{OH} \\ & \text{N-CH}_2 \\ & \text{Ph} \\ & \text{O} \end{array}$$

```
ANSWER 3 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
          2004:872783 CAPLUS
AN
DN
          141:366141
ΤI
          Preparation of 3-azabicyclo[3.2.1]octane derivatives for use in
          pharmaceutical compositions as opioid receptor modulators
          Coe, Jotham Wadsworth; Mchardy, Stanton Furst; Bashore, Crystal Gayle
IN
PΑ
          Pfizer Products Inc., USA
SO
          PCT Int. Appl., 95 pp.
          CODEN: PIXXD2
DТ
          Patent
          English
LΑ
FAN.CNT 1
          PATENT NO.
                                                  KIND
                                                                 ĎATE
                                                                                         APPLICATION NO.
                                                                                                                                        DATE
                                                   ____
PΙ
          WO 2004089908
                                                    A2
                                                                 20041021
                                                                                         WO 2004-IB1189
                                                                                                                                        20040402
                                                    A3
          WO 2004089908
                                                                 20041223
                          AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                  W:
                          GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, bV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
                 NO, NZ, OM, PG, PH, PL, PT, RO, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SY, TD, RE, BL, CE, CG, CI, CM, CD, CM, CO, CH, MI, MR, NE, SN, CM, CD, CM, MI, MR, NE, SN, CM, CD, CM, CD, CM, MI, MR, NE, SN, CM, CD, CM, CD, CM, MI, MR, NE, SN, CM, CD, CM, CD,
                          SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
                          TD. TG
          NL 1025932
                                                     A1
                                                                 20041018
                                                                                         NL 2004-1025932
                                                                                                                                        20040413
          US 2004259859
                                                     A1
                                                                 20041223
                                                                                         US 2004-824037
                                                                                                                                        20040414
PRAI US 2003-462629P
                                                     Ρ
                                                                 20030414
          MARPAT 141:366141
OS
AB
          3-Azabicyclo[3.2.1]octanes, such as I [R = H, OH, CN, NH2, CONH2, alkyl,
          alkynyl, alkylsuflonylamino, etc.; R3 = alkyl, arylalkyl, heteroarylalkyl,
          etc.; R8 = H, OH, OMe] and specifically II, were prepared for therapeutic
          use in the treatment of disease states, disorders and conditions mediated
          by opioid receptors, such as irritable bowel syndrome, drug
          addiction, depression, anxiety, schizophrenia and eating disorders.
ΙT
          778582-19-7P 778582-20-0P 778582-21-1P
          778582-22-2P 778582-23-3P 778582-24-4P
          778582-25-5P 778582-27-7P 778582-29-9P
          778582-30-2P 778582-31-3P 778582-32-4P
          778582-33-5P 778582-34-6P 778582-35-7P
          778582-36-8P 778582-37-9P 778582-38-0P
          778582-39-1P 778582-40-4P 778582-41-5P
          778582-42-6P 778582-43-7P 778582-44-8P
          778582-45-9P 778582-46-0P 778582-47-1P
          778582-48-2P 778582-49-3P 778582-50-6P
          778582-51-7P 778582-52-8P 778582-53-9P
          778582-54-0P 778582-55-1P 778582-56-2P
          778582-57-3P 778582-58-4P 778582-59-5P
          778582-60-8P 778582-61-9P 778582-62-0P
          778582-63-1P 778582-64-2P 778582-65-3P
          778582-66-4P 778582-67-5P 778582-68-6P
          778582-69-7P 778582-70-0P 778582-71-1P
          778582-72-2P 778582-73-3P 778582-74-4P
          778582-75-5P 778582-76-6P 778582-77-7P
          778582-78-8P 778582-79-9P 778582-80-2P
          778582-81-3P 778582-82-4P 778582-83-5P
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778582-84-6P 778582-85-7P 778582-86-8P
778582-87-9P 778582-88-0P 778582-89-1P
778582-90-4P 778582-91-5P 778582-92-6P
778582-93-7P 778582-94-8P 778582-95-9P
778582-96-0P 778582-97-1P 778582-98-2P
778582-99-3P 778583-01-0P 778583-05-4P
778583-07-6P 778583-09-8P 778583-11-2P
778583-12-3P 778583-14-5P 778583-17-8P
778583-18-9P 778583-19-0P 778583-20-3P
778583-21-4P 778583-22-5P 778583-23-6P
778583-24-7P 778583-25-8P 778583-26-9P
778583-27-0P 778583-28-1P 778583-29-2P
778583-30-5P 778583-31-6P 778583-32-7P
778583-35-0P 778583-36-1P 778583-38-3P
778583-39-4P 778583-40-7P 778583-42-9P
778583-43-0P 778583-44-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
   (preparation of 3-azabicyclo[3.2.1]octane derivs. for use in pharmaceutical
   compns. as opioid receptor modulators)
778582-19-7 CAPLUS
Methanesulfonamide, N-[3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3-
azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)
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RN

CN

RN 778582-20-0 CAPLUS
CN Phenol, 3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-21-1 CAPLUS
CN Ethanesulfonamide, N-[3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-22-2 CAPLUS

CN Methanesulfonamide, N-[3-[8-hydroxy-3-[3-(1-hydroxycyclohexyl)propyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778582-23-3 CAPLUS

CN Benzamide, 3-[3-[3-(1-hydroxycyclohexyl)propyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} & \text{N} & \text{CH}_2) \ 3 & \\ \hline \\ \text{N} & \text{OH} & \\ \text{N} & \text{OH} & \\ \end{array}$$

RN 778582-24-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 3-[3-(1-hydroxycyclohexyl)propyl]-8-(3-hydroxyphenyl)- (9CI) (CA INDEX NAME)

RN 778582-25-5 CAPLUS

CN Benzamide, 3-[3-(cyclopropylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} & \\ & \text{N} & \text{CH}_2 \\ \\ & \text{O} \end{array}$$

RN 778582-27-7 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ \text{OH} & & & \\ & & & \\ \text{OMe} & & \\ \end{array}$$

RN 778582-29-9 CAPLUS

CN 1H-Inden-2-ol, 2,3-dihydro-2-[[8-(3-hydroxyphenyl)-8-methoxy-3-azabicyclo[3.2.1]oct-3-yl]methyl]- (9CI) (CA INDEX NAME)

RN 778582-30-2 CAPLUS

CN Ethanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O \\ \parallel \\ CH_2 - N \\ OH \end{array}$$

RN 778582-31-3 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \text{OH} \\ \text{OH} & \text{OH} \\ \text{OH} & \text{OH} \\ \end{array}$$

RN 778582-32-4 CAPLUS

CN Ethanesulfonamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

RN 778582-33-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-(3-hydroxyphenyl)- (9CI) (CA INDEX NAME)

RN 778582-34-6 CAPLUS

CN Benzamide, 3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \begin{array}{c} \text{O} \\ \text{C-NH}_2 \end{array} \\ \text{OMe} \end{array}$$

RN 778582-35-7 CAPLUS

CN Ethanone, 1-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \begin{array}{c} \text{O} \\ \text{C-CF}_3 \end{array} \\ \end{array}$$

RN 778582-36-8 CAPLUS

CN Benzamide, 3-(3-ethyl-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ H_2N-C & & & \\ \parallel & & \\ O & & & \\ \end{array}$$

RN 778582-37-9 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(3-methylbutyl)-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} & \\ & \text{N} & \text{CH}_2\text{--}\text{CH}_2\text{--}\text{CHMe}_2 \\ \\ & \text{H}_2\text{N} - \text{C} \\ & \text{O} \end{array}$$

RN 778582-38-0 CAPLUS

CN Benzamide, 3-(8-methoxy-3-pentyl-3-azabicyclo[3.2.1]oct-8-yl)- (9CI) (CA INDEX NAME)

$$_{\text{H}_{2}\text{N}-\text{C}}^{\text{MeO}}$$
 (CH<sub>2</sub>)  $_{4}$ -Me

RN 778582-39-1 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(1H-pyrrol-2-ylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & \\ H_2N-C \\ & & \\ & & \\ \end{array}$$

RN 778582-40-4 CAPLUS

CN Benzamide, 3-(3-hexyl-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl)- (9CI) (CA INDEX NAME)

$$MeO$$
 $N$ 
 $CH_2)5-Me$ 
 $O$ 

RN 778582-41-5 CAPLUS

CN Benzamide, 3-[3-(2-ethylbutyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} \\ & \text{N} \\ \text{CH}_2\text{-}\text{CHEt}_2 \\ \\ \text{O} \end{array}$$

RN 778582-42-6 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[(1-methyl-1H-pyrrol-2-yl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} & \text{Me} \\ & \text{N} & \text{CH}_2 & \text{N} \\ & \text{O} & \text{O} & \text{O} \end{array}$$

RN 778582-43-7 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(3-thienylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$H_2N-C$$
 $N$ 
 $CH_2$ 
 $S$ 

RN 778582-44-8 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(2-thiazolylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ H_2N-C \\ & & \\ & & \\ \end{array}$$

RN 778582-45-9 CAPLUS

CN Benzamide, 3-(8-methoxy-3-octyl-3-azabicyclo[3.2.1]oct-8-yl)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} & \\ & \text{N} & \text{(CH2)} \ 7^{-} \, \text{Me} \\ & \text{O} & \\ \end{array}$$

RN 778582-46-0 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(3-phenyl-2-propynyl)-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} \\ \hline & \text{N} \\ \text{CH}_2\text{-}\text{C} \\ \hline & \text{O} \\ \end{array}$$

RN 778582-47-1 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(3-phenylpropyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$MeO$$
 $N$ 
 $(CH2)3-Ph$ 
 $O$ 

RN 778582-48-2 CAPLUS

CN Benzamide, 3-[3-(1H-indol-3-ylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ \hline N & C - NH_2 \\ \hline \end{array}$$

RN 778582-49-3 CAPLUS

CN Benzamide, 3-[3-(2-benzofuranylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \hline \\ C - NH_2 \\ \hline \\ OMe \\ \end{array}$$

RN 778582-50-6 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(2-naphthalenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$CH_2-N$$
OMe

RN 778582-51-7 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(3-quinolinylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$CH_2$$
 $CH_2$ 
OMe

RN 778582-52-8 CAPLUS

CN Benzamide, 3-[3-[(4-chloro-2-fluorophenyl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-53-9 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[(1-methyl-1H-indol-3-yl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & O \\ \hline & & \\ & &$$

RN 778582-54-0 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[2-(2-phenylethoxy)ethyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} \\ & \text{N} \\ & \text{CH}_2\text{-}\text{CH}_2\text{-}\text{O}\text{-}\text{CH}_2\text{-}\text{CH}_2\text{-}\text{Ph} \\ & \text{O} \end{array}$$

RN 778582-55-1 CAPLUS

CN Ethanesulfonamide, N-[3-(8-hydroxy-3-pentyl-3-azabicyclo[3.2.1]oct-8-

yl)phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c} O \\ \parallel \\ MeO-CH_2-CH_2-S-NH \end{array} \qquad \begin{array}{c} HO \\ \parallel \\ O \end{array} \qquad \begin{array}{c} N \\ \longleftarrow \\ O \end{array} \qquad \begin{array}{c} (CH_2)_4-Me \\ \longleftarrow \\ O \end{array}$$

RN 778582-56-2 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(3-methylbutyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & &$$

RN 778582-57-3 CAPLUS

CN Benzamide, 3-[3-[(4-hydroxy-1-naphthalenyl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-58-4 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[[4-(1-pyrrolidinyl)phenyl]methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-59-5 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[(3-methylbenzo[b]thien-2-yl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

RN 778582-60-8 CAPLUS

CN Benzamide, 3-[3-[(1-hydroxy-3-phenylcyclobutyl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{OH} & \text{OH} \\ & \text{N-CH}_2 & \text{Ph} \\ & \text{O} & \text{Ph} \end{array}$$

RN 778582-61-9 CAPLUS

CN Ethanesulfonamide, N-[3-(3-hexyl-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl)phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-62-0 CAPLUS

CN Benzamide, 3-[3-([1,1'-biphenyl]-4-ylmethyl)-8-methoxy-3-

azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} & \\ & \text{N} & \text{CH}_2 \\ & \\ & \text{O} \end{array}$$

RN 778582-63-1 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(3-pyridinylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-64-2 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[[3-(trifluoromethoxy)phenyl]methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$H_2N-C$$
 $N$ 
 $CH_2$ 
 $O-CF_3$ 

RN 778582-65-3 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(3-thienylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-66-4 CAPLUS

CN Ethanesulfonamide, N-[3-[3-(cyclohexylmethyl)-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & &$$

RN 778582-67-5 CAPLUS

CN Benzamide, 3-[3-(9H-fluoren-2-ylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{O} & \text{O} \\ \text{C-NH}_2 \\ \text{OMe} \end{array}$$

RN 778582-68-6 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[(3-phenoxyphenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} & \\ & \text{N} & \text{CH}_2 \\ & \\ & \text{O} \end{array}$$

RN 778582-69-7 CAPLUS

CN Benzamide, 3-[3-[[4-(dimethylamino)-1-naphthalenyl]methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-70-0 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(2-phenylethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

RN 778582-71-1 CAPLUS

CN Ethanesulfonamide, N-[3-(8-hydroxy-3-octyl-3-azabicyclo[3.2.1]oct-8-yl)phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-72-2 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(3-phenyl-2-propynyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & &$$

RN 778582-73-3 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(3-phenylpropyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

MeO-
$$CH_2$$
- $CH_2$ - $S$ - $NH$ 

(CH<sub>2</sub>)<sub>3</sub>- $Ph$ 

RN 778582-74-4 CAPLUS

CN Ethanesulfonamide, N-[3-[3-[(4-chlorophenyl)methyl]-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

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RN 778582-75-5 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(1H-indol-3-ylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ NH - S - CH_2 - CH_2 - OMe \\ O & OH \end{array}$$

RN 778582-76-6 CAPLUS

CN Ethanesulfonamide, N-[3-[3-(2-benzofuranylmethyl)-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ NH-S-CH_2-CH_2-OMe \\ \hline \\ OH & \\ \end{array}$$

RN 778582-77-7 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(2-naphthalenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

RN 778582-78-8 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(1-naphthalenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O \\ \parallel \\ NH - S - CH_2 - CH_2 - OMe \\ \parallel \\ O \end{array}$$

RN 778582-79-9 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(4-quinolinylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

RN 778582-80-2 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(3-quinolinylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

RN 778582-81-3 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-[(1-methyl-1H-indol-3-yl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-82-4 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-[2-(2-phenylethoxy)ethyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-83-5 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-[(4-hydroxy-1-naphthalenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

RN 778582-84-6 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-[[4-(1-pyrrolidinyl)phenyl]methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-85-7 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-[(3-methylbenzo[b]thien-2-yl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

RN 778582-86-8 CAPLUS

CN Ethanesulfonamide, N-[3-[3-([1,1'-biphenyl]-4-ylmethyl)-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778582-87-9 CAPLUS

CN Ethanesulfonamide, N-[3-[3-(9H-fluoren-2-ylmethyl)-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

RN 778582-88-0 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-[(3-phenoxyphenyl)methyl]-3-

azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c} O \\ | \\ | \\ | \\ O \end{array}$$

$$MeO-CH_2-CH_2-S-NH$$

$$OPh$$

RN 778582-89-1 CAPLUS

CN Ethanesulfonamide, N-[3-[3-[[4-(dimethylamino)-1-naphthalenyl]methyl]-8-hydroxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O \\ \parallel \\ CH_2 - N \\ OH \end{array}$$

$$OH \\ OH$$

$$OH$$

$$OH$$

RN 778582-90-4 CAPLUS

CN Methanesulfonamide, N-[3-[3-(cyclopropylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ \parallel & & \\ \text{Me} - & & \\ \parallel & & \\ \text{O} & & \\ \end{array}$$

RN 778582-91-5 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{MeO} \\ & \text{N} \\ \text{CH}_2\text{-}\text{CH}_2\text{-}\text{Ph} \\ & \text{O} \end{array}$$

RN 778582-92-6 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(2-methylpropyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ Me - S - NH & \\ \parallel & \\ O & \\ \end{array}$$
 MeO- N- Bu-i

RN 778582-93-7 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(3-methylbutyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{O} & \text{MeO} \\ \text{Me} - \text{S} - \text{NH} & \text{CH}_2 - \text{CH}_2 - \text{CHMe}_2 \\ \text{O} & \text{O} \end{array}$$

RN 778582-94-8 CAPLUS

CN Methanesulfonamide, N-[3-(8-methoxy-3-pentyl-3-azabicyclo[3.2.1]oct-8-yl)phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ Me - S - NH & \\ \parallel & \\ O & \\ \end{array}$$
 MeO \quad N \quad (CH2) 4 - Me

RN 778582-95-9 CAPLUS

CN Methanesulfonamide, N-[3-[3-(2-ethylbutyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778582-96-0 CAPLUS

CN Methanesulfonamide, N-[3-(3-hexyl-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl)phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ Me - S - NH \\ \parallel & \\ O & \\ \end{array}$$
 MeO \tag{CH\_2} \, 5 - Me

RN 778582-97-1 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(3-pyridinylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$Me - S - NH$$

$$0$$

$$N - CH_2$$

RN 778582-98-2 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(2-thiazolylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ MeO & \\ N-CH_2 & \\ N \end{array}$$

RN 778582-99-3 CAPLUS

CN Methanesulfonamide, N-[3-(3-heptyl-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl)phenyl]- (9CI) (CA INDEX NAME)

RN 778583-01-0 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ Me^{-S-NH} & \\ \parallel & \\ O & \\ \end{array}$$

RN 778583-05-4 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(4-fluorophenyl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & MeO \\ \hline Me-S-NH & N-CH_2 \\ \hline O & F \end{array}$$

RN 778583-07-6 CAPLUS

CN Methanesulfonamide, N-[3-[3-(2-ethylhexyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & Et \\ \parallel & N \\ \parallel & \\ O & \\ \end{array}$$
 MeO 
$$\begin{array}{c|c} CH_2 - CH - Bu - n \\ \end{array}$$

RN 778583-09-8 CAPLUS

CN Methanesulfonamide, N-[3-(8-methoxy-3-octyl-3-azabicyclo[3.2.1]oct-8-yl)phenyl]- (9CI) (CA INDEX NAME)

$$Me - S - NH$$

$$0$$

$$MeO - N$$

$$0$$

$$(CH2) 7 - Me$$

RN 778583-11-2 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-[(4-methoxyphenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & MeO \\ \hline Me-S-NH & N-CH_2 \\ \hline O & OMe \\ \end{array}$$

RN 778583-12-3 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(4-chlorophenyl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ Me - S - NH & \\ \parallel & \\ O & \\ \end{array}$$

RN 778583-14-5 CAPLUS

CN Methanesulfonamide, N-[3-[3-(1H-indol-3-ylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ NH - S - Me \\ O \\ O \\ \end{array}$$

RN 778583-17-8 CAPLUS

CN Methanesulfonamide, N-[3-[3-(2-benzofuranylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

RN 778583-18-9 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(1-naphthalenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-19-0 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(2-naphthalenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-20-3 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(4-quinolinylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-21-4 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(3-quinolinylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

RN 778583-22-5 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(4-chloro-2-fluorophenyl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ MeO & \\ \hline O & \\ \end{array}$$

$$\begin{array}{c|c} N - \\ CH_2 & \\ \hline F & \\ \end{array}$$

RN 778583-23-6 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-[(1-methyl-1H-indol-3-yl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-24-7 CAPLUS

CN Methanesulfonamide, N-[3-[3-[(4-hydroxy-1-naphthalenyl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-25-8 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-[[4-(1-pyrrolidinyl)phenyl]methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & MeO & NeO &$$

RN 778583-26-9 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-[(3-methylbenzo[b]thien-2-yl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

RN 778583-27-0 CAPLUS

CN Methanesulfonamide, N-[3-[3-([1,1'-biphenyl]-4-ylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-28-1 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-[[3-(trifluoromethoxy)phenyl]methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-29-2 CAPLUS

CN Methanesulfonamide, N-[3-[3-(9H-fluoren-2-ylmethyl)-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

RN 778583-30-5 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-[(3-phenoxyphenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & MeO & NeO &$$

RN 778583-31-6 CAPLUS

CN Methanesulfonamide, N-[3-[3-[[4-(dimethylamino)-1-naphthalenyl]methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778583-32-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 3-(3-cyclohexylpropyl)-8-(3-hydroxyphenyl)-(9CI) (CA INDEX NAME)

RN 778583-35-0 CAPLUS

CN Benzamide, 3-[8-hydroxy-3-[(1,2,3,4-tetrahydro-2-hydroxy-2-naphthalenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} OH & & & \\ \hline \\ CH_2 - N \\ \hline \\ OH \end{array}$$

RN 778583-36-1 CAPLUS

CN Benzamide, 3-[8-methoxy-3-[(1,2,3,4-tetrahydro-2-hydroxy-2-naphthalenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & \begin{array}{c|c} \text{O} & \\ \text{C} & \text{NH}_2 \end{array} \\ \hline \\ \text{OMe} & \end{array}$$

RN 778583-38-3 CAPLUS

CN Methanesulfonamide, N-[3-[8-hydroxy-3-[(1,2,3,4-tetrahydro-2-hydroxy-2-naphthalenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ \text{OH} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

RN 778583-39-4 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-[(1,2,3,4-tetrahydro-2-hydroxy-2-naphthalenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OH} & & \text{O} \\ \parallel & \parallel & \\ \text{OH} & & \text{OMe} \end{array}$$

RN 778583-40-7 CAPLUS

CN Acetamide, N-[3-[3-[(2,3-dihydro-2-hydroxy-1H-inden-2-yl)methyl]-8-methoxy-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2,2,2-trifluoro-(9CI) (CA INDEX

NAME)

$$\begin{array}{c|c} O \\ \parallel \\ CH_2 \end{array} \qquad \begin{array}{c|c} O \\ NH-C-CF_3 \end{array}$$

RN 778583-42-9 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-[(1,2,3,4-tetrahydro-2-hydroxy-2-naphthalenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 778583-43-0 CAPLUS

CN Ethanesulfonamide, 2-methoxy-N-[3-[8-methoxy-3-[(1,2,3,4-tetrahydro-2-hydroxy-2-naphthalenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

RN 778583-44-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 3-(cyclopropylmethyl)-8-(3-hydroxyphenyl)-(9CI) (CA INDEX NAME)

IT 778581-99-0

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of 3-azabicyclo[3.2.1]octane derivs. for use in pharmaceutical

compns. as opioid receptor modulators)

RN 778581-99-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 8-(3-aminophenyl)-3-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

$$H_2N$$
 $N$ 
 $CH_2$ 
OMe

IT 778581-81-0P 778581-83-2P 778581-93-4P

778581-94-5P 778581-95-6P 778581-97-8P

778581-98-9P 778582-01-7P 778582-02-8P

778582-04-0P 778582-06-2P 778582-07-3P

778582-08-4P 778582-10-8P 778582-11-9P

778582-13-1P 778582-15-3P 778582-16-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 3-azabicyclo[3.2.1]octane derivs. for use in pharmaceutical compns. as **opioid** receptor modulators)

RN 778581-81-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 8-(3-methoxyphenyl)-3-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

RN 778581-83-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 8-chloro-8-(3-methoxyphenyl)-3-[(4methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Cl} & \\ & \text{N} & \text{CH}_2 \\ \hline \\ & \text{OMe} \end{array}$$

RN 778581-93-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 8-(3-bromophenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

$$Br$$
 $N$ 
 $CH_2-Ph$ 

RN 778581-94-5 CAPLUS

CN Boronic acid, [3-[8-hydroxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778581-95-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 8-(3-hydroxyphenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

RN 778581-97-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octan-8-ol, 8-(3-aminophenyl)-3-(phenylmethyl)- (9CI) (CA INDEX NAME)

$$H_2N$$
 $N$ 
 $CH_2-Ph$ 

RN 778581-98-9 CAPLUS

CN Methanesulfonamide, N-[3-[8-hydroxy-3-[(4-methoxyphenyl)methyl]-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$Me = S - NH$$

$$0$$

$$N - CH_2$$

$$0$$

$$0$$

$$0$$

RN 778582-01-7 CAPLUS

CN Benzonitrile, 3-[8-hydroxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

RN 778582-02-8 CAPLUS

CN Benzamide, 3-[8-hydroxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$H_2N-C$$
 $O$ 
 $CH_2-Ph$ 

RN 778582-04-0 CAPLUS

CN Ethanesulfonamide, N-[3-[8-hydroxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$$

RN 778582-06-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 8-(3-bromophenyl)-8-methoxy-3-(phenylmethyl)-(9CI) (CA INDEX NAME)

$$Br$$
 $N$ 
 $CH_2-Ph$ 

RN 778582-07-3 CAPLUS

CN Boronic acid, [3-[8-methoxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 778582-08-4 CAPLUS

CN Phenol, 3-[8-methoxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-10-8 CAPLUS

CN Benzenamine, 3-[8-methoxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$H_2N$$
 $N$ 
 $CH_2-Ph$ 

RN 778582-11-9 CAPLUS

CN Methanesulfonamide, N-[3-[8-methoxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \\ \parallel & \\ Me - S - NH \\ \parallel & \\ O & \\ \end{array}$$
 MeO 
$$\begin{array}{c} N \\ CH_2 - Ph \\ \end{array}$$

RN 778582-13-1 CAPLUS

CN Ethanesulfonamide, 2-methoxy-N-[3-[8-methoxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

RN 778582-15-3 CAPLUS

CN Benzonitrile, 3-[8-methoxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]- (9CI) (CA INDEX NAME)

RN 778582-16-4 CAPLUS

CN Benzamide, 3-[8-methoxy-3-(phenylmethyl)-3-azabicyclo[3.2.1]oct-8-yl]-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ \text{MeO} & & & \\ & & & \\ \text{H}_2\text{N} - \text{C} & & \\ & & & \\ \text{O} & & & \\ \end{array}$$

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ANSWER 4 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
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ΤI
     Preparation of azabicyclo[3.2.1]octanols and related compounds as superior
     agonists for nociceptin receptor ORL-1
IN
     Tulshian, Deen; Ho, Ginny D.; Ng, Fay W.
PA
     Schering Corporation, USA
     PCT Int. Appl., 30 pp.
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     CODEN: PIXXD2
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                                              WO 2002-US35539
                                                                      20021106
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     WO 2003039469
                           A3
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             MG, MK, MN, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SE, SG, SI, SK,
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                                  20030515
                                            CA 2002-2465871
     CA 2465871
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                                                                       20021106
     US 2003119847
                                              US 2002-288976
                           A1
                                  20030626
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     EP 1442036
                           A2
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     BR 2002013907
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                           Т2
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PRAI US 2001-333284P
                           P
                                  20011107
     WO 2002-US35539
                           W
                                 20021106
os
     MARPAT 138:368776
     Azabicyclo[3.2.1]octanes (shown as I; variables defined below; e.g.
ΑB
     8-[bis(2-chlorophenyl)methyl]-3-(2-pyrimidinyl)-8-azabicyclo[3.2.1]octan-3-
     ol) or a pharmaceutically acceptable salt or solvate thereof,
     pharmaceutical compns. thereof, and the use of said compds. in the
     treatment of pain, anxiety, cough, asthma, depression and alc.
     abuse are disclosed. For I: R is R4-heteroaryl or 1,4,5,6-
     tetrahydropyrimidin-2-yl; R1 is H or C1-C6 alkyl; R2 and R3 = -CH3, -OCH3,
     fluoro, chloro, bromo and iodo; R4 = 1 to 4 H, halo, (C1-C6) alkyl, -CN,
     -CF3, -OCF3, -(CH2) nOR5, -(CH2) nNR5R6, -(CH2) nNHSO2R5,
     -(CH2)nNH(CH2)2NR5R6, -(CH2)nNHC(0)NR5R7, -(CH2)NH(CH2)2OR5 and
     1-piperazinyl; n is 0-3; R5 and R6 = H and C1-C3-alkyl; and R7 is H,
     C1-C3-alkyl or amino(C1-C3)alkyl. Although the methods of preparation are not
     claimed, 20 example prepns. are included. Ki values for binding of I to
     nociceptin are reported for 9 examples, e.g. 1.3 nM for
     8-[bis(2-chlorophenyl)methyl]-3-(5-bromo-2-pyridinyl)-8-
     azabicyclo[3.2.1]octan-3-ol. The agonist activity (EC50) of I are 20-200
          Example tablet and capsule formulations and methods for their manufacture
     are described.
     524019-25-8P, 8-[Bis(2-chlorophenyl)methyl]-3-(2-pyrimidinyl)-8-
     azabicyclo[3.2.1]octan-3-ol 524019-34-9P, 8-[Bis(2-
     chlorophenyl)methyl]-3-(1-methylpyrazol-5-yl)-8-azabicyclo[3.2.1]octan-3-
     ol 524019-43-0P, 1,1-Dimethylethyl [2-[[[[6-[8-[bis(2-
```

chlorophenyl)methyl]-3-hydroxy-8-azabicyclo[3.2.1]oct-3-yl]-2pyridinyl]methyl]amino]carbonyl]amino]ethyl]carbamate
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate; preparation of azabicyclooctanols and related compds. as superior agonists for nociceptin receptor ORL-1)
524019-25-8 CAPLUS
8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

RN

CN

RN 524019-34-9 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(1-methyl-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)

RN 524019-43-0 CAPLUS

CN Carbamic acid, [2-[[[[[6-[8-[bis(2-chlorophenyl)methyl]-3-hydroxy-8-azabicyclo[3.2.1]oct-3-yl]-2-pyridinyl]methyl]amino]carbonyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

IT **524019-26-9P**, 8-[Bis(2-chlorophenyl)methyl]-3-(5-ethyl-2-pyrimidinyl)-8-azabicyclo[3.2.1]octan-3-ol **524019-28-1P**,

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8-[Bis(2-chlorophenyl)methyl]-3-[4-(1-piperazinyl)-2-pyrimidinyl]-8-
azabicyclo[3.2.1]octan-3-ol 524019-30-5P, 8-[Bis(2-
chlorophenyl)methyl]-3-(2-pyridinyl)-8-azabicyclo[3.2.1]octan-3-ol
524019-31-6P, 8-[Bis(2-chlorophenyl)methyl]-3-(6-methoxy-2-
pyridinyl) -8-azabicyclo[3.2.1]octan-3-ol 524019-32-7P,
8-[Bis(2-chlorophenyl)methyl]-3-methoxy-3-(2-pyrimidinyl)-8-
azabicyclo[3.2.1]octane 524019-33-8P, 8-[Bis(2-
chlorophenyl)methyl]-3-(1H-pyrazol-5-yl)-8-azabicyclo[3.2.1]octan-3-ol
524019-35-0P, 8-[Bis(2-chlorophenyl)methyl]-3-(1-methyl-1H-indol-2-
yl)-8-azabicyclo[3.2.1]octan-3-ol 524019-36-1P,
8-[Bis(2-chlorophenyl)methyl]-3-(1-methyl-1H-imidazol-2-yl)-8-
azabicyclo[3.2.1]octan-3-ol 524019-37-2P, 8-[Bis(2-
chlorophenyl)methyl]-3-(3-pyridazinyl)-8-azabicyclo[3.2.1]octan-3-ol
524019-38-3P, 8-[Bis(2-chlorophenyl)methyl]-3-(2-pyrazinyl)-8-
azabicyclo[3.2.1]octan-3-ol 524019-39-4P, 8-[Bis(2-
chlorophenyl)methyl]-3-(4-pyrimidinyl)-8-azabicyclo[3.2.1]octan-3-ol
524019-42-9P, 8-[Bis(2-chlorophenyl)methyl]-3-(5-bromo-2-
pyridinyl)-8-azabicyclo[3.2.1]octan-3-ol 524019-48-5P,
N-(2-Aminoethyl)-N'-[[6-[8-[Bis(2-chlorophenyl)methyl]-3-hydroxy-8-
azabicyclo[3.2.1]oct-3-yl]-2-pyridinyl]methyl]urea hydrochloride
524019-49-6P, 3-[3-(Aminomethyl)-2-pyridinyl]-8-[Bis(2-
chlorophenyl)methyl]-8-azabicyclo[3.2.1]octan-3-ol 524019-54-3P,
8-[Bis(2-chlorophenyl)methyl]-3-[4-(methylamino)-2-pyridinyl]-8-
azabicyclo[3.2.1]octan-3-ol 524019-56-5P, 3-[6-[(2-
Aminoethyl)amino]-2-pyridinyl]-8-[bis(2-chlorophenyl)methyl]-8-
azabicyclo[3.2.1]octan-3-ol 524019-59-8P, 8-[Bis(2-
chlorophenyl)methyl]-3-(1,4,5,6-tetrahydro-2-pyrimidinyl)-8-
azabicyclo[3.2.1]octan-3-ol
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
   (drug candidate; preparation of azabicyclooctanols and related compds. as
   superior agonists for nociceptin receptor ORL-1)
524019-26-9 CAPLUS
8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(5-ethyl-2-
pyrimidinyl) - (9CI) (CA INDEX NAME)
```

RN

CN

RN 524019-28-1 CAPLUS
CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-[4-(1-piperazinyl)-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 524019-30-5 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(2-pyridinyl)- (9CI) (CA INDEX NAME)

RN 524019-31-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(6-methoxy-2-pyridinyl)- (9CI) (CA INDEX NAME)

RN 524019-32-7 CAPLUS

CN 8-Azabicyclo[3.2.1]octane, 8-[bis(2-chlorophenyl)methyl]-3-methoxy-3-(2-pyrimidinyl)- (9CI) (CA INDEX NAME)

RN 524019-33-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

RN 524019-35-0 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(1-methyl-1H-indol-2-yl)- (9CI) (CA INDEX NAME)

RN 524019-36-1 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(1-methyl-1H-imidazol-2-yl)- (9CI) (CA INDEX NAME)

RN 524019-37-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(3-pyridazinyl)- (9CI) (CA INDEX NAME)

RN 524019-38-3 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-pyrazinyl-(9CI) (CA INDEX NAME)

RN 524019-39-4 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(4-pyrimidinyl)- (9CI) (CA INDEX NAME)

RN 524019-42-9 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(5-bromo-2-pyridinyl)- (9CI) (CA INDEX NAME)

RN 524019-48-5 CAPLUS

CN Urea, N-(2-aminoethyl)-N'-[[6-[8-[bis(2-chlorophenyl)methyl]-3-hydroxy-8-azabicyclo[3.2.1]oct-3-yl]-2-pyridinyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ \hline & &$$

## ● HCl

RN 524019-49-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[3-(aminomethyl)-2-pyridinyl]-8-[bis(2-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 524019-54-3 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-[4-(methylamino)-2-pyridinyl]- (9CI) (CA INDEX NAME)

RN 524019-56-5 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[6-[(2-aminoethyl)amino]-2-pyridinyl]-8-[bis(2-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 524019-59-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(1,4,5,6-tetrahydro-2-pyrimidinyl)- (9CI) (CA INDEX NAME)

TT 524019-29-2P, 8-[Bis(2-chlorophenyl)methyl]-3-(4-chloro-2pyrimidinyl)-8-azabicyclo[3.2.1]octan-3-ol 524019-41-8P,
8-[Bis(2-chlorophenyl)methyl]-3-(5-bromo-4-pyrimidinyl)-8azabicyclo[3.2.1]octan-3-ol 524019-45-2P, 8-[Bis(2chlorophenyl)methyl]-3-[6-(hydroxymethyl)-2-pyridinyl]-8azabicyclo[3.2.1]octan-3-ol 524019-47-4P, 3-[6-(Aminomethyl)-2pyridinyl]-8-[Bis(2-chlorophenyl)methyl]-8-azabicyclo[3.2.1]octan-3-ol
524019-52-1P, 8-[Bis(2-chlorophenyl)methyl]-3-[3-(hydroxymethyl)-2pyridinyl]-8-azabicyclo[3.2.1]octan-3-ol 524019-55-4P,
1,1-Dimethylethyl [2-[8-[bis(2-chlorophenyl)methyl]-3-hydroxy-8azabicyclo[3.2.1]oct-3-yl]-4-pyridinyl]carbamate 524019-57-6P,
8-[Bis(2-chlorophenyl)methyl]-3-(6-bromo-2-pyridinyl)-8azabicyclo[3.2.1]octan-3-ol 524019-58-7P, 1,1-Dimethylethyl
[2-[6-[8-[bis(2-chlorophenyl)methyl]-3-hydroxy-8-azabicyclo[3.2.1]oct-3-

yl]-2-pyridinyl]aminoethyl]carbamate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of azabicyclooctanols and related compds. as superior agonists for nociceptin receptor ORL-1)

RN 524019-29-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(4-chloro-2-pyrimidinyl)- (9CI) (CA INDEX NAME)

RN 524019-41-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(5-bromo-4-pyrimidinyl)- (9CI) (CA INDEX NAME)

RN 524019-45-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-[6-(hydroxymethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

RN 524019-47-4 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[6-(aminomethyl)-2-pyridinyl]-8-[bis(2-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 524019-52-1 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-[3-(hydroxymethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

RN 524019-55-4 CAPLUS

CN Carbamic acid, [2-[8-[bis(2-chlorophenyl)methyl]-3-hydroxy-8-azabicyclo[3.2.1]oct-3-yl]-4-pyridinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

RN 524019-57-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-(6-bromo-2-pyridinyl)- (9CI) (CA INDEX NAME)

RN 524019-58-7 CAPLUS

CN Carbamic acid, [2-[[6-[8-[bis(2-chlorophenyl)methyl]-3-hydroxy-8-azabicyclo[3.2.1]oct-3-yl]-2-pyridinyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

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ANSWER 5 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
L55
AN
        2002:293443 CAPLUS
DN
        136:319370
        Use of defined substances that bind to the sigma receptor for combating
ΤI
        sarcoma and carcinoma
IN
        Van Amsterdam, Christoph
        Merck Patent Gmbh, Germany
PA
SO
        PCT Int. Appl., 36 pp.
        CODEN: PIXXD2
DT
        Patent
LΑ
        German
FAN.CNT 1
                                                       DATE
        PATENT NO.
                                           KIND
                                                                           APPLICATION NO.
                                                                                                                   DATE
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                                                                                                                   20011011
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                      GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
                      LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
                      PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
               RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
                      DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
                      BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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                                                                           DE 2000-10050236
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        AU 2002010527
                                            A5
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                                                                           AU 2002-10527
                                                                                                                    20011011
PRAI DE 2000-10050236
                                                       20001011
                                            Α
        WO 2001-EP11710
                                            W
                                                       20011011
        The invention relates to the use of a compound, selected from
AΒ
         3-[4-(4-phenyl-1,2-3,6-tetrahydro-1-pyridyl)butyl]indole-5-ol,
         1-(2-(bis(4-fluorophenyl)methoxy)ethyl)-4-(3-phenyl-propyl)piperazine,
         1-(4-hydroxyphenyl)-2-(4-benzyl-1-piperidinyl)propanol,
         3-(4-((3S)-3-benzyl-1-piperidyl)butyl)indole-5-carbonitrile,
         3-(4-((3R)-3-benzyl-1-piperidyl)butyl)indole-5-carbonitrile,
         6-(4-(4-(5-fluoro-3-indolyl)butyl)-1-piperazinyl)-2H-1-benzopyrane-2-one,
         (5S)-(-)-5-[4-(4-aminobenzyl)-1-piperidylmethyl]-3-(4-
         ethylphenyl)oxazolidine-2-one, 6-3-[4-(2,4-difluorobenzyl)-1-piperidyl]-1-
         oxopropyl-2,3-dihydrobenzoxazole-2-one. 3-(4-(3-(4-Fluorophenyl-
         hydroxymethyl)piperido-1-yl)butyl)-5-indole-carbonitrile,
         2-(4-[3-(5H-dibenz[b,f]azepine-5-yl)propyl]-1-piperazinyl)ethanol,
         1-[2-(3,4-dimethoxyphenyl)ethyl]-4-(3-phenylpropyl)piperazine,
         (5S) - (-) - 5 - (4-benzyl-1-piperidylmethyl) - 3 - (4-chlorophenyl) oxazolidine-2-
         one, 6-3-[4-(4-fluorobenzyl)-1-piperidyl]-2-methylpropionyl-2,3-
         dihydrobenzoxazole-2-one, (1R,2S)-(+)-4-(3-(4-benzyl-piperidino-1-yl)-1-
         hydroxy-2-methyl-propyl) phenol, (E)-4-(3-(4-benzyl-piperidino-1-yl)-2-
        methyl-propenyl) phenol, 3-(4-(2,1,3-benzothiadiazole-5-yl)-1-
        piperazinyl)butyl)indole-5-carbonitrile, 6-(3-(4-(4-fluorobenzyl)-1-
        piperidyl)-2-propenyl)-2,3-dihydrobenzoxazole-2-one, 3-(4-
         trifluoromethylphenoxymethyl)pyrrolidine, 6-3-[4-(4-fluorobenzyl)-1-
         piperidyl]-propionyl-3H-benzothiazole-2-one, 4-[3-(4-
         fluorobenzyl)piperidino-1-yl]propoxyphenol, [2-(4-methoxy-3-phenethyloxy-
         phenyl) ethyl]dipropyl-amine. (1S, 5R) - 3 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - (2 - adamantyl) + ethyl) - 1, 8, 8 - (2 - adamantyl) + (2 - adamanty
         trimethyl-3-azabicyclo[3.2.1]octane, 6-3-[4-(2,4-difluorobenzyl)piperidino-
         1-yl]propionyl-3H-benzothiazole-2-one, 1-1-[2-(4-fluoro-
         phenyl)ethyl]piperidino-4-ylindane-1-ol, 1-[2-(4-fluoro-phenyl)ethyl]-4-
         (naphthalino-2-sulfinyl)piperidine, 1-(indole-4-yl)-4-[4-(4-
         fluorophenyl)butyl]piperazine, 3-(4-(2-(2-phenyl-ethyl)-1-piperidyl)-1-
         butyl)indole, 2-[4-(4-(3-indolyl)butyl)-1-piperazinyl]benzonitrile, etc.,
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or the corresponding acids, bases, or salts, which may be used as  $\sigma\text{-receptor ligands}$  for treating carcinoma or sarcoma.

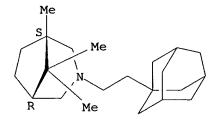
IT 161785-97-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(substances that bind to the sigma receptor for combating sarcoma and carcinoma)

RN 161785-97-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-1-ylethyl)-, (1S,5R)- (9CI) (CA INDEX NAME)



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 6 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
     2001:78241 CAPLUS
AN
DN
     134:131434
TI
     Preparation of substituted piperidines as nociceptin receptor
     ORL-1 agonists for use in treating cough
IN
     Tulshian, Deen; Ho, Ginny D.; Silverman, Lisa S.; Matasi, Julius J.;
     Mcleod, Robbie L.; Hey, John A.; Chapman, Richard W.; Bercovici, Ana;
     Cuss, Francis M.
PA
     Schering Corporation, USA
     PCT Int. Appl., 95 pp.
SO
     CODEN: PIXXD2
DT
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LA
FAN.CNT 1
                                  DATE
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                           KIND
                                               APPLICATION NO.
                           ____
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
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                                   20020523
OS
     MARPAT 134:131434
     The title compds. [I; X1 = (un)substituted alkyl, cycloalkyl, aryl, etc.;
AΒ
     X2 = CHO, CN, (un) substituted NH2, etc.; or X1 = (un) substituted
     benzofused heterocyclyl and X2 = H; or X1 and X2 together form an
     optionally benzofused spiro heterocyclyl group; R1-R4 = H, alkyl; or (R1
     and R4) or (R2 and R3) or (R1 and R3) or (R2 and R4) together can form an
     alkylene bridge; Z1 = (un)substituted alkyl, aryl, heteroaryl, etc.; Z2 =
     H, Z1; Z3 = H, alkyl; or Z1-Z3, together with the carbon to which they are
```

acceptable salts, useful as **ORL**-1 receptor agonists for the treatment of **cough**, alone or in combination with one or more agents for the treatment of **cough**, allergy or asthma symptoms,

attached, form bicyclic saturated or unsatd. rings] and their pharmaceutically

were prepared and formulated. Thus, reacting 4-hydroxy-4-phenylpiperidine with  $\alpha$ -bromodiphenylmethane in the presence of K2CO3 in CH3CN afforded 90% II which showed Ki of 13 nM against **ORL**-1 receptor binding.

IT 322473-56-3P 322473-57-4P 322473-58-5P 322473-59-6P 322473-60-9P 322473-61-0P 322473-65-4P 322473-63-2P 322473-64-3P 322473-65-4P 322473-66-5P 322473-67-6P 322473-68-7P 322473-72-3P 322473-71-2P 322473-75-6P 322473-75-6P 322473-77-8P 322473-78-9P 322473-79-0P 322473-80-3P 322473-81-4P 322473-94-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

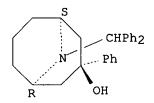
(preparation of substituted piperidines as nociceptin receptor

ORL-1 agonists for use in treating cough)

RN 322473-56-3 CAPLUS

9-Azabicyclo[3.3.1]nonan-3-ol, 9-(diphenylmethyl)-3-phenyl-, hydrochloride, (3-endo)- (9CI) (CA INDEX NAME)

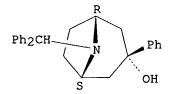
Relative stereochemistry.



CN

## ● HCl

Relative stereochemistry.



### ● HCl

Relative stereochemistry.

HCl

RN 322473-59-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-phenyl-, hydrochloride, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

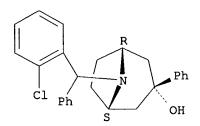
RN 322473-60-9 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-fluorophenyl)methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

RN 322473-61-0 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-chlorophenyl)phenylmethyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

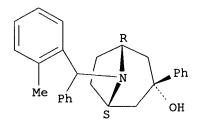
Relative stereochemistry.



RN 322473-62-1 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-methylphenyl)phenylmethyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 322473-63-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-chlorophenyl)methyl]-, (3-endo)- (9CI) (CA INDEX NAME)

RN 322473-64-3 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-fluorophenyl)phenylmethyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-65-4 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-methylphenyl)methyl]-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-66-5 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-phenyl-8-(1-phenylpentyl)-, (3-endo)- (9CI) (CA INDEX NAME)

RN 322473-67-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-phenyl-8-(1-phenylhexyl)-, (3-endo)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

Me 
$$(CH_2)_4$$
  $Ph$   $S$   $OH$ 

RN 322473-68-7 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-fluorophenyl)methyl]-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-69-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-bromophenyl)phenylmethyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

RN 322473-70-1 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-bromophenyl)methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-71-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-bromophenyl)methyl]-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-72-3 CAPLUS

CN Benzoic acid, 2-[[(3-endo)-3-hydroxy-3-phenyl-8-azabicyclo[3.2.1]oct-8-yl]phenylmethyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-73-4 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis[2-(hydroxymethyl)phenyl]methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-74-5 CAPLUS

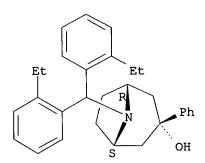
CN Benzaldehyde, 2,2'-[[(3-endo)-3-hydroxy-3-phenyl-8-azabicyclo[3.2.1]oct-8-yl]methylene]bis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-75-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-ethylphenyl)methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 322473-76-7 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-methoxyphenyl)methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

RN 322473-77-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[1-(2-methylphenyl)pentyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-78-9 CAPLUS

CN Benzoic acid, 2-[[(3-endo)-3-hydroxy-3-phenyl-8-azabicyclo[3.2.1]oct-8-yl]methyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-79-0 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-phenyl-8-[(2,3,5,6-tetrafluoro-4-methoxyphenyl)methyl]-, (3-endo)- (9CI) (CA INDEX NAME)

RN 322473-80-3 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2,6-dimethoxyphenyl)methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-81-4 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[[2-fluoro-6-(trifluoromethyl)phenyl]methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-94-9 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

## IT 322473-83-6 322473-89-2

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of substituted piperidines as **nociceptin** receptor **ORL-1** agonists for use in treating **cough**)

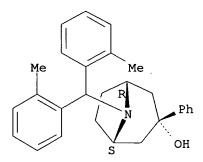
RN 322473-83-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-(diphenylmethyl)-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 322473-89-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-methylphenyl)methyl]-3-phenyl-, (3-endo)- (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 7 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
L55
AN
     2000:98519 CAPLUS
DN
     132:137290
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     Preparation of piperidine derivatives as high affinity ligands for
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IN
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PA
     Schering Corporation, USA
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OS
     Compds. of formula I [ wherein: the dotted line represents an optional
AB
     double bond; X1 = (un)substituted alkyl, cycloalkyl, aryl, heteroaryl or
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compds. of formula 1 [ wherein: the dotted line represents an optional double bond; X1 = (un)substituted alkyl, cycloalkyl, aryl, heteroaryl or heterocycloalkyl; X2 = CHO, CN, optionally substituted amino, alkyl, or aryl; or X1 = (un)substituted benzofused heterocyclyl and X2 = H; or X1 and X2 together form an optionally benzofused spiro heterocyclyl group; R1, R2, R3 and R4 = independently H and alkyl, or (R1 and R4) or (R2 and R3) or (R1 and R3) or (R2 and R4) together can form an alkylene bridge of 1 to 3 carbon atoms; Z1 = (un)substituted alkyl, aryl, heteroaryl, cycloalkyl or heterocycloalkyl, or CO2(alkyl or substituted amino) or CN; Z2 = H or Z1; Z3 = H or alkyl; or Z1, Z2 and Z3, together with the carbon to which

they are attached, form bicyclic saturated or unsatd. rings] or pharmaceutically acceptable salt or solvate thereof useful as nociceptin receptor inhibitors for the treatment of pain, anxiety, cough, asthma, depression, and alc. abuse are disclosed. Compound II showed the Ki value of 13 nM in an in vitro test for ORL-1 receptor binding assay. Formulations are given.

IT 256941-84-1P 256941-85-2P 256941-86-3P 256941-87-4P 256941-98-7P 256941-99-8P 256942-00-4P 256942-01-5P 256942-02-6P 256942-03-7P 256942-04-8P 256942-05-9P 256942-06-0P 256942-07-1P 256942-08-2P 256942-09-3P 256942-10-6P 256942-13-9P 256942-14-0P 256942-15-1P 256942-16-2P 256942-17-3P 256942-18-4P 256942-19-5P 256942-20-8P 256942-21-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperidine derivs. as high affinity ligands for **nociceptin** receptor **ORL-1**)

RN 256941-84-1 CAPLUS

CN 9-Azabicyclo[3.3.1]nonan-3-ol, 9-(diphenylmethyl)-3-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

## ● HCl

RN 256941-85-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-(diphenylmethyl)-3-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

#### HCl

RN 256941-86-3 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-methylphenyl)methyl]-3-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

## ● HCl

RN 256941-87-4 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-chlorophenyl)methyl]-3-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

# ● HCl

RN 256941-98-7 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-fluorophenyl)methyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256941-99-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-chlorophenyl)phenylmethyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-00-4 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-methylphenyl)phenylmethyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-01-5 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-chlorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 256942-02-6 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-fluorophenyl)phenylmethyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-03-7 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-methylphenyl)methyl]- (9CI) (CA INDEX NAME)

RN 256942-04-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-phenyl-8-(1-phenylpentyl)- (9CI) (CA INDEX NAME)

RN 256942-05-9 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-phenyl-8-(1-phenylhexyl)- (9CI) (CA INDEX NAME)

Me- (CH<sub>2</sub>) 
$$_4$$
-CH

Ph

N

Ph

Ph

OH

RN 256942-06-0 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 256942-07-1 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2-bromophenyl)phenylmethyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-08-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-bromophenyl)methyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-09-3 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-[2-(aminomethyl)phenyl]-8-[bis(2-bromophenyl)methyl]- (9CI) (CA INDEX NAME)

RN 256942-10-6 CAPLUS

CN Benzoic acid, 2-[(3-hydroxy-3-phenyl-8-azabicyclo[3.2.1]oct-8-yl)phenylmethyl]- (9CI) (CA INDEX NAME)

RN 256942-13-9 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis[2-(hydroxymethyl)phenyl]methyl]-3-phenyl- (9CI) (CA INDEX NAME)

RN 256942-14-0 CAPLUS

CN Benzaldehyde, 2,2'-[(3-hydroxy-3-phenyl-8-azabicyclo[3.2.1]oct-8-yl)methylene]bis- (9CI) (CA INDEX NAME)

RN 256942-15-1 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-ethylphenyl)methyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-16-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[bis(2-methoxyphenyl)methyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-17-3 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[1-(2-methylphenyl)pentyl]-3-phenyl-(9CI) (CA INDEX NAME)

RN 256942-18-4 CAPLUS

CN Benzoic acid, 2-[(3-hydroxy-3-phenyl-8-azabicyclo[3.2.1]oct-8-yl)methyl]-(9CI) (CA INDEX NAME)

$$CO_2H$$
 $CH_2$ 
 $Ph$ 
 $OH$ 

RN 256942-19-5 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 3-phenyl-8-[(2,3,5,6-tetrafluoro-4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

RN 256942-20-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[(2,6-dimethoxyphenyl)methyl]-3-phenyl-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OMe} \\ \hline \\ \text{CH}_2 - \begin{array}{c} \\ \\ \text{OMe} \end{array} \end{array} \begin{array}{c} \text{Ph} \\ \\ \text{OH} \end{array}$$

RN 256942-21-9 CAPLUS

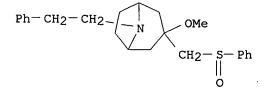
CN 8-Azabicyclo[3.2.1]octan-3-ol, 8-[[2-fluoro-6-(trifluoromethyl)phenyl]methyl]-3-phenyl- (9CI) (CA INDEX NAME)

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 $Ph$ 
 $OH$ 

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 8 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
L55
AN
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     132:151695
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ΤI
     Preparation of cyclic amine derivatives
     Takadoi, Masanori; Tanioka, Asao; Ikeda, Makoto; Fukuda, Yasumichi;
IN
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                                   19980731
     JP 1999-212807
                            Α
                                   19990727
     WO 1999-JP4109
                            W
                                   19990730
OS
     MARPAT 132:151695
AΒ
     Title compds. [I; R1 is hydrogen or C1-C6 alkyl; X is hydrogen, hydroxyl
     or C1-C6 alkoxy; Y is alkylene or alkenylalkylene; A is a five, six or
     seven-membered cyclic amine which contains one nitrogen atom and may be
     bridged at any positions; B is an optionally substituted homo or
     heterocycle; C is an optionally substituted homo or heterocycle except
     indole ring; and n is 1 or 2], drug compns. containing title compds, and
     pharmaceutical acceptable salts thereof are prepared and tested as
     tachykinin antagonists exhibited antagonism against substance P and neuro
     kinin A receptors. The title compound II was prepared
IT
     257633-64-0P 257633-65-1P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (preparation of cyclic amines)
RN
     257633-64-0 CAPLUS
CN
     8-Azabicyclo[3.2.1]octane, 3-methoxy-8-(2-phenylethyl)-3-
     [(phenylsulfinyl)methyl]- (9CI) (CA INDEX NAME)
```



RN 257633-65-1 CAPLUS CN 8-Azabicyclo[3.2.1]octane, 8-[2-(3-benzofuranyl)ethyl]-3-methoxy-3[(phenylsulfinyl)methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \bullet & \bullet & \bullet \\ \hline & \mathsf{CH}_2-\mathsf{CH}_2-& \bullet \\ \hline & \mathsf{CH}_2-\mathsf{S-Ph} \\ & & \mathsf{O} \\ \end{array}$$

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L55 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 1997:634154 CAPLUS
- DN 127:314404
- TI An aromatic moiety is not essential for pharmacophore binding to sigma binding sites: synthesis of N-alkylazacycloheptane derivatives as potent sigma ligands
- AU Yamashita, Akitake; Takahashi, Nobuyuki; Mochizuki, Daisuke; Tsujita, Ryuichi; Yamada, Shinji; Kawakubo, Hiromu; Suzuki, Yukio; Watanabe, Hideyuki
- CS Inst. Life Science, Asahi Chemical Industry, Shizuoka, 410-23, Japan
- SO Bioorganic & Medicinal Chemistry Letters (1997), 7(17), 2303-2306 CODEN: BMCLE8; ISSN: 0960-894X
- PB Elsevier
- DT Journal
- LA English

RN

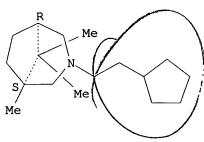
- AB Novel 3-(ω-(cycloalkyl)-alkyl-1,8,8-trimethyl)-3azabicyclo[3.2.1]octanes that had no aromatic rings were synthesized.
  Binding studies showed that these compds. were potent sigma ligands. Due
  to their simple structures without extra functional groups, they are
  suitable tools with which to identify pharmacophores capable of binding
  strongly to sigma binding sites.
- IT 161786-00-1 161786-01-2 161786-03-4 161786-04-5 161786-05-6 161786-06-7 161786-07-8 161786-09-0 161902-56-3 195600-91-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(synthesis of N-alkylazacycloheptane derivs. as potent sigma ligands) 161786-00-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclopentylethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 161786-01-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclohexylethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

RN 161786-03-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cycloheptylethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 161786-04-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclooctylethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 161786-05-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(4-cyclohexylbutyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Me Me 
$$(CH_2)_4$$

RN 161786-06-7 CAPLUS

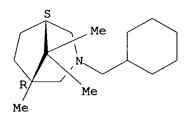
CN 3-Azabicyclo[3.2.1]octane, 3-(3-cyclohexylpropyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161786-07-8 CAPLUS

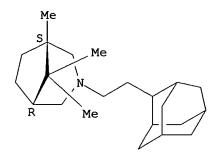
CN 3-Azabicyclo[3.2.1]octane, 3-(cyclohexylmethyl)-1,8,8-trimethyl-, (1R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 161786-09-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-2-ylethyl)-, (1S)- (9CI) (CA INDEX NAME)



RN 161902-56-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclohexylethyl)-1,8,8-trimethyl-, (1R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 195600-91-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(cyclohexylmethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

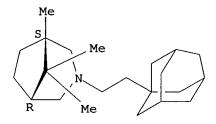
Absolute stereochemistry. Rotation (-).

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 10 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     1997:574512 CAPLUS
DN
    127:248269
ΤI
    Preparation of azepine derivatives as \sigma-receptors
IN
    Takahashi, Nobuyuki; Mochizuki, Daisuke
PA
    Asahi Kasei Kogyo K. K., Japan
SO
    U.S., 28 pp., Cont.-in-part of U.S. Ser. No. 389,385, abandoned.
    CODEN: USXXAM
DΤ
    Patent
    English
LΑ
FAN.CNT 3
     PATENT NO.
                       KIND
                               DATE
                                          APPLICATION NO.
                                                                 DATE
     -----
                       ____
                               _____
                                          _____
                                                                  _____
                                                               19950330
    US 5658923
                               19970819 US 1995-413285
PΙ
                       Α
                       A2
                                                                19930908
    JP 06184113
                               19940705 JP 1993-223744
                                          JP 1995-202166
    JP 08109129
                       A2
                               19960430
                                                                19950808
     JP 2831952
                       B2.
                               19981202
PRAI JP 1992-250158
                       Α
                               19920918
    JP 1992-267702
                       Α
                               19921006
    JP 1994-47012
                        Α
                               19940317
    US 1995-389385
                         B2
                               19950216
     JP 1993-223745
                               19930908
OS
    MARPAT 127:248269
    An azepine compds. I (R = (a) Q, R1 = H, lower alkyl, lower alkoxy,
AB
    hydroxy, halo, optionally substituted Ph, and n = 0, 1; (b) C5-8
     cycloalkyl which is optionally substituted by lower alkyl, (c) norbornyl,
     (d) bicyclo[3.3.1]nonyl, (e) naphthyl, (f) 1,3-benzoxolyl, (g) pyridyl, or
     (h) thienyl; m = 0-4, and C* is an asym. carbon), and their nontoxic salts
     were prepared for treating diseases related to \sigma-receptor such as
     schizophrenia. Thus, (1S)-1,8,-trimethyl-3-azabicyclo[3.2.1]octane
     hydrochloride was treated with 1-adamantylacetic acid followed by reduction to
     give (1S)-3-[2-(1-adamantyl)ethyl]-1,8,-trimethyl-3-
     azabicyclo[3.2.1]octane. The binding Ki for II with \sigma-receptor was
     0.26 nM.
IT
     161785-97-3P 161786-00-1P 161786-01-2P
     161786-05-6P 161786-06-7P 161786-07-8P
     161786-09-0P 161786-13-6P 161786-14-7P
     161786-15-8P 161786-23-8P 161786-24-9P
     161786-25-0P 161786-28-3P 161786-29-4P
     161786-30-7P 161786-31-8P 161786-32-9P
     161786-33-0P 161786-34-1P 161902-53-0P
     161902-54-1P 161902-55-2P 161902-56-3P
     161902-59-6P 161902-60-9P 161902-61-0P
     161902-62-1P 161902-63-2P 161902-64-3P
     161902-66-5P 161902-67-6P 161902-68-7P
     161902-76-7P 161902-77-8P 161902-78-9P
     161902-79-0P 161902-80-3P 161902-82-5P
     161902-83-6P 161902-84-7P 161902-85-8P
     161902-86-9P 161902-87-0P 161902-88-1P
     161902-89-2P 161902-90-5P 161902-91-6P
     161967-90-4P 161967-91-5P 161967-95-9P
     161967-96-0P 161967-97-1P 161967-98-2P
     161967-99-3P 161968-00-9P 170719-72-9P
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195600-94-3P 195601-00-4P 195601-11-7P 195601-12-8P 195601-15-1P 195601-16-2P 195601-17-3P 195601-18-4P 195726-99-9P 195727-00-5P 195727-01-6P 195727-02-7P 195727-03-8P 195727-04-9P 195727-05-0P 195727-06-1P 195727-07-2P 195727-08-3P 195727-09-4P 195727-10-7P 195727-11-8P 195727-12-9P 195727-13-0P 195727-14-1P 195727-15-2P 195727-16-3P 195727-75-4P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of azepine derivs. as  $\sigma$ -receptors) RN 161785-97-3 CAPLUS 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-1-CN ylethyl)-, (1S,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 161786-00-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclopentylethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161786-01-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclohexylethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

RN 161786-05-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(4-cyclohexylbutyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161786-06-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(3-cyclohexylpropyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

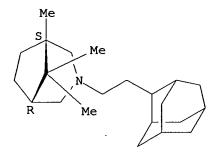
RN 161786-07-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(cyclohexylmethyl)-1,8,8-trimethyl-, (1R)-(9CI) (CA INDEX NAME)

RN 161786-09-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-2-ylethyl)-, (1S)- (9CI) (CA INDEX NAME)

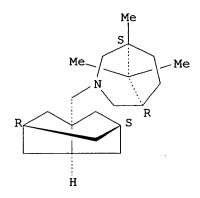
Absolute stereochemistry. Rotation (-).



RN 161786-13-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[(hexahydro-2,5-methanopentalen-3a(1H)-yl)methyl]-1,8,8-trimethyl-, [3a(1S)-(2 $\alpha$ ,3a $\beta$ ,5 $\alpha$ ,6a $\beta$ )
]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 161786-14-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-bicyclo[3.3.1]non-9-ylethyl)-1,8,8-trimethyl-, (1S)- (9CI) (CA INDEX NAME)



$$Me$$
 $N$ 
 $CH_2$ 
 $CH_2$ 
 $R$ 

RN 161786-15-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(tricyclo[3.3.1.13,7]dec-1-ylmethyl)-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

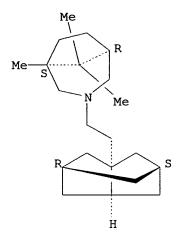
RN 161786-23-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(3-tricyclo[3.3.1.13,7]dec-2-ylpropyl)-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161786-24-9 CAPLUS

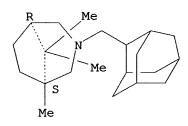
CN 3-Azabicyclo[3.2.1]octane, 3-[2-(hexahydro-2,5-methanopentalen-3a(1H)-yl)ethyl]-1,8,8-trimethyl-, [3a(1S)-(2 $\alpha$ ,3a $\beta$ ,5 $\alpha$ ,6a $\beta$ )]- (9CI) (CA INDEX NAME)



RN 161786-25-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(tricyclo[3.3.1.13,7]dec-2-ylmethyl)-, (1S)- (9CI) (CA INDEX NAME)

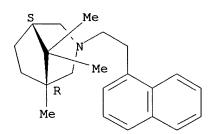
Absolute stereochemistry. Rotation (-).



RN 161786-28-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(1-naphthalenyl)ethyl]-, hydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



HCl

RN 161786-29-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-naphthalenyl)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 161786-30-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-pyridinyl)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 161786-31-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-pyridinyl)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 161786-32-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(3-pyridinyl)ethyl]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161786-33-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(1,3-benzodioxol-5-yl)ethyl]-1,8,8-trimethyl-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161786-34-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-thienyl)ethyl]-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161902-53-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-1-ylethyl)-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

### HCl

RN 161902-54-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclopentylethyl)-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

### ● HCl

RN 161902-55-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclohexylethyl)-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

### HCl

RN 161902-56-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-cyclohexylethyl)-1,8,8-trimethyl-, (1R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 161902-59-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(4-cyclohexylbutyl)-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

### ● HCl

RN 161902-60-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(3-cyclohexylpropyl)-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

$$\begin{array}{c} \text{Me} \\ \text{N} \\ \text{S} \\ \text{Me} \end{array}$$

#### HCl

RN 161902-61-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(cyclohexylmethyl)-1,8,8-trimethyl-, hydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

### HCl

RN 161902-62-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-1-ylethyl)-, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 161902-63-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-2-ylethyl)-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

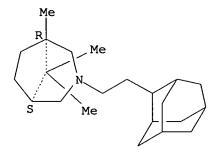
Absolute stereochemistry. Rotation (-).

## ● HCl

RN 161902-64-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-2-ylethyl)-, (1R)- (9CI) (CA INDEX NAME)

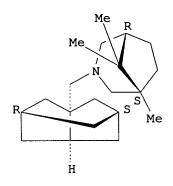
Absolute stereochemistry. Rotation (+).



RN 161902-66-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[(hexahydro-2,5-methanopentalen-3a(1H)-yl)methyl]-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



HCl

RN 161902-67-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-bicyclo[3.3.1]non-9-ylethyl)-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

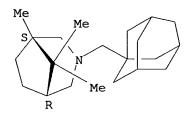


$$N$$
—  $CH_2$ —  $CH_2$ —  $R$ 
 $Me$ 

RN 161902-68-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(tricyclo[3.3.1.13,7]dec-1-ylmethyl)-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



#### ● HCl

RN 161902-76-7 CAPLUS

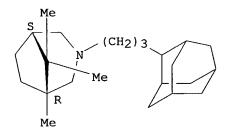
CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(3-tricyclo[3.3.1.13,7]dec-2-ylpropyl)-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161902-77-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(3-tricyclo[3.3.1.13,7]dec-2-ylpropyl)-, (1R)- (9CI) (CA INDEX NAME)

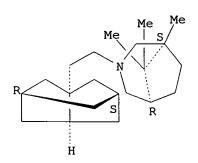
Absolute stereochemistry. Rotation (+).



RN 161902-78-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(hexahydro-2,5-methanopentalen-3a(1H)-yl)ethyl]-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

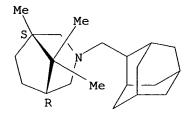


## HCl

RN 161902-79-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(tricyclo[3.3.1.13,7]dec-2-ylmethyl)-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

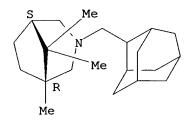


# ● HCl

RN 161902-80-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(tricyclo[3.3.1.13,7]dec-2-ylmethyl)-, (1R)- (9CI) (CA INDEX NAME)

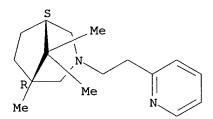
Absolute stereochemistry. Rotation (+).



RN 161902-82-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-pyridinyl)ethyl]-, monohydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



### ● HCl

RN 161902-83-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-pyridinyl)ethyl]-, monohydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 161902-84-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(1-naphthalenyl)ethyl]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161902-85-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-naphthalenyl)ethyl]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161902-86-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-pyridinyl)ethyl]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161902-87-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(3-pyridinyl)ethyl]-, monohydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

#### HCl

RN 161902-88-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-pyridinyl)ethyl]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161902-89-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(1,3-benzodioxol-5-yl)ethyl]-1,8,8-trimethyl-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161902-90-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-thienyl)ethyl]-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

### ● HCl

RN 161902-91-6 CAPLUS

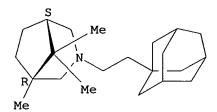
CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(1-naphthalenyl)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 161967-90-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-1-ylethyl)-, hydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



### HCl

RN 161967-91-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(2-tricyclo[3.3.1.13,7]dec-2-ylethyl)-, hydrochloride, (1R)- (9CI) (CA INDEX NAME)

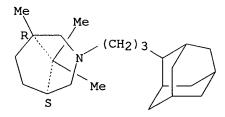
Absolute stereochemistry. Rotation (+).

## ● HCl

RN 161967-95-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(3-tricyclo[3.3.1.13,7]dec-2-ylpropyl)-, hydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

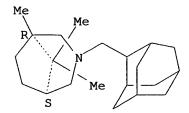


## ● HCl

RN 161967-96-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-(tricyclo[3.3.1.13,7]dec-2-ylmethyl)-, hydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

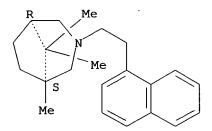


### HCl

RN 161967-97-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(1-naphthalenyl)ethyl]-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



### ● HCl

RN 161967-98-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-naphthalenyl)ethyl]-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 161967-99-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(2-pyridinyl)ethyl]-, monohydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

● HCl

RN 161968-00-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-pyridinyl)ethyl]-, monohydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

HCl

RN 170719-72-9 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-ol,  $4-[2-(1,8,8-\text{trimethyl}-3-\text{azabicyclo}[3.2.1]\text{oct}-3-yl)\text{ethyl}]-, [4(1S)-(1\alpha,3\alpha,4\alpha,5.beta.,7\alpha)]- (9CI) (CA INDEX NAME)$ 

Absolute stereochemistry.

RN 170719-73-0 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-ol,  $4-[2-(1,8,8-\text{trimethyl-3-azabicyclo}[3.2.1]\text{oct-3-yl})\text{ethyl}]-, [4(1S)-(1<math>\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5.bet a.,7 $\alpha$ )]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-74-1 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-ol,  $4-[2-(1,8,8-\text{trimethyl-3-azabicyclo}[3.2.1]\text{oct-3-yl})\text{ethyl}]-, [4(1R)-(1\alpha,3\alpha,4\alpha,5.beta.,7\alpha)]- (9CI) (CA INDEX NAME)$ 

Absolute stereochemistry.

RN 170719-75-2 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-ol, 4-[2-(1,8,8-trimethyl-3-

azabicyclo[3.2.1]oct-3-yl)ethyl]-, [4(1R)-(1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ ,5.bet a.,7 $\alpha$ )]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-78-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-methoxytricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1R)-(1 $\alpha$ ,2 $\beta$ ,3 $\beta$ ,5 $\beta$ ,7.bet a.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-80-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1S)-(1 $\alpha$ ,2 $\beta$ ,3 $\beta$ ,5 $\beta$ ,7.bet a.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-81-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-

yl)ethyl]-1,8,8-trimethyl-, [2(1S)-(1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,5 $\beta$ ,7.be ta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-82-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1R)-(1 $\alpha$ ,2 $\beta$ ,3 $\beta$ ,5 $\beta$ ,7.bet a.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-83-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1R)-(1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,5 $\beta$ ,7.be ta.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-84-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(5-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(1S)-

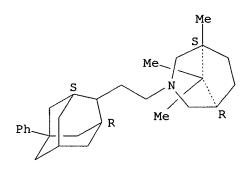
 $(1\alpha, 2\beta, 3\beta, 5\beta, 7\beta)$ ] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170719-85-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(5-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(1S)- $(1\alpha,2\alpha,3\beta,5\beta,7\beta)$ ]- (9CI) (CA INDEX NAME)

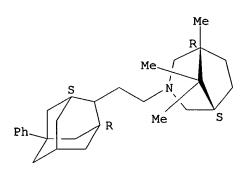
Absolute stereochemistry.



RN 170719-86-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(5-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(1R)-(1 $\alpha$ ,2 $\beta$ ,3 $\beta$ ,5 $\beta$ ,7 $\beta$ )]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170719-87-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(5-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(1R)-(1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,5 $\beta$ ,7 $\beta$ )]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 195600-82-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-bicyclo[2.2.1]hept-2-ylethyl)-1,8,8-trimethyl-, [1S,2(1S,5R),4R]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 195600-91-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(cyclohexylmethyl)-1,8,8-trimethyl-, (1S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

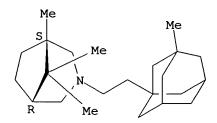
RN 195600-93-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-methylcyclohexyl)ethyl]-, [1R-( $1\alpha$ ,5 $\alpha$ )]-[partial]- (9CI) (CA INDEX NAME)

RN 195600-94-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(3-methyltricyclo[3.3.1.13,7]dec-1-yl)ethyl]-, (1S)- (9CI) (CA INDEX NAME)

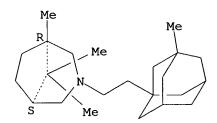
Absolute stereochemistry. Rotation (-).



RN 195601-00-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(3-methyltricyclo[3.3.1.13,7]dec-1-yl)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 195601-11-7 CAPLUS

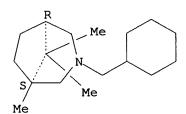
CN 3-Azabicyclo[3.2.1]octane, 3-(2-bicyclo[2.2.1]hept-2-ylethyl)-1,8,8-trimethyl-, hydrochloride, [1S,2(1S,5R),4R]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

## ● HCl

RN 195601-15-1 CAPLUS
CN 3-Azabicyclo[3.2.1]octane, 3-(cyclohexylmethyl)-1,8,8-trimethyl-,
hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



# ● HCl

RN 195601-16-2 CAPLUS CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-methylcyclohexyl)ethyl]-

, hydrochloride, [1R-(1 $\alpha$ ,5 $\alpha$ )]-[partial]- (9CI) (CA INDEX NAME)

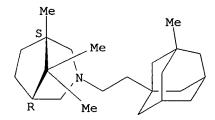
Absolute stereochemistry.

## ● HCl

RN 195601-17-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(3-methyltricyclo[3.3.1.13,7]dec-1-yl)ethyl]-, hydrochloride, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



#### ● HCl

RN 195601-18-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(3-methyltricyclo[3.3.1.13,7]dec-1-yl)ethyl]-, hydrochloride, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

### HCl

RN 195726-99-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1S,5R)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 195727-00-5 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-methoxytricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1S,5R)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 195727-01-6 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(5-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(15,5R)]-[partial]- (9CI) (CA INDEX NAME)

RN 195727-02-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decan-2-ol, 4-[2-(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)ethyll- [4/15.58)l-[partial]-

azabicyclo[3.2.1]oct-3-yl)ethyl]-, [4(1S,5R)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 195727-03-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(15,5R)]-[partial]- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 195727-04-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 195727-05-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-methoxytricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

RN 195727-06-1 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-ol, 4-[2-(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)ethyl]-, [4(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 195727-07-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, [2(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 195727-08-3 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(5-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, [2(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

RN 195727-09-4 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, hydrochloride, [2(1S,5R)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

#### HCl

RN 195727-10-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, hydrochloride, [2(1S,5R)]-[partial]- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 195727-11-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 1,8,8-trimethyl-3-[2-(4-phenyltricyclo[3.3.1.13,7]dec-2-yl)ethyl]-, hydrochloride, [2(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 195727-12-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-methoxytricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, hydrochloride, [2(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

## HCl

RN 195727-14-1 CAPLUS
CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-chlorotricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, hydrochloride, [2(1R,5S)]-[partial]- (9CI) (CA INDEX NAME)

## HCl

RN 195727-15-2 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-(5-methoxytricyclo[3.3.1.13,7]dec-2-yl)ethyl]-1,8,8-trimethyl-, hydrochloride, [2(1S,5R)]-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

### HCl

RN 195727-16-3 CAPLUS

CN Tricyclo[3.3.1.13,7]decan-1-ol, 4-[2-(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)ethyl]-, hydrochloride, [4(1S,5R)]-[partial]-(9CI) (CA INDEX NAME)

RN 195727-75-4 CAPLUS CN Tricyclo[3.3.1.13,7]decan-1-ol, 4-[2-(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)ethyl]-, [4(15,5R)]-[partial]- (9CI) (CA INDEX NAME)

### 10/761,977

L55 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

1993:93788 CAPLUS AN

118:93788 DN

Opioid properties of some derivatives of pethidine based on ΤI tropane

Casy, A. F.; Dewar, G. H.; Pascoe, R. A. ΑU

CS Sch. Pharm. Pharmacol., Univ. Bath, Bath, BA2 7AY, UK

RS1. 565 Journal of Pharmacy and Pharmacology (1992), 44(10), 787-90 SO CODEN: JPPMAB; ISSN: 0022-3573

DT Journal

LA English

The preparation of some tropane analogs of pethidine and its reversed ester, AΒ chiefly with preferred  $3\alpha$ -m-hydroxyphenyl chair conformations, is described. The former were secured from tropan-3-one in a sequence of reactions involving cyanide attack, hydrolysis, Grignard attack and then rearrangements. The reversed ester was obtained by treating tropan-3-one with lithium Ph, followed by acylation. Configurational and conformational assignments follow from NMR anal. The antinociceptive potencies of these compds. in mice are reported, and discussed in relation to non-phenolic congeners and the 4-arylpiperidine moiety of morphine.

IT 145879-81-8P 145899-57-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and analgesic activity of)

145879-81-8 CAPLUS RN

8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 3-(3-hydroxyphenyl)-8-propyl-CN , ethyl ester, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 145899-57-6 CAPLUS

8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 3-(3-methoxyphenyl)-8-(2-CN phenylethyl)-, ethyl ester, exo- (9CI) (CA INDEX NAME)

IT 145879-72-7P 145879-73-8P 145879-74-9P 145879-75-0P 145879-76-1P 145879-77-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 145879-72-7 CAPLUS

CN 8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 8-(cyclopropylmethyl)-3-(3-methoxyphenyl)-, ethyl ester, hydrochloride, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 145879-73-8 CAPLUS

CN 8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 8-(cyclopropylmethyl)-3-(3-hydroxyphenyl)-, ethyl ester, hydrochloride, exo- (9CI) (CA INDEX NAME)

RN 145879-74-9 CAPLUS

CN 8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 3-(3-methoxyphenyl)-8-propyl-, ethyl ester, hydrochloride, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 145879-75-0 CAPLUS

CN 8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 3-(3-hydroxyphenyl)-8-propyl-, ethyl ester, hydrochloride, exo- (9CI) (CA INDEX NAME)

RN 145879-76-1 CAPLUS

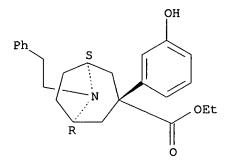
CN 8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 3-(3-methoxyphenyl)-8-(2-phenylethyl)-, ethyl ester, hydrochloride, exo- (9CI) (CA INDEX NAME)

Relative stereochemistry.

● HCl

RN 145879-77-2 CAPLUS

CN 8-Azabicyclo[3.2.1]octane-3-carboxylic acid, 3-(3-hydroxyphenyl)-8-(2-phenylethyl)-, ethyl ester, hydrochloride, exo- (9CI) (CA INDEX NAME)



L55 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:464561 CAPLUS

DN 115:64561

TI Characterization of 9 slowly dissociated opioid ligands azabicyclononanes compounds to  $\mu$ ,  $\delta$ , and  $\kappa$  receptors

AU Fan, Liqun; Jin, Wengiao; Chi, Zhiqiang

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Zhongguo Yaoli Xuebao (1991), 12(3), 245-9 CODEN: CYLPDN; ISSN: 0253-9756

DT Journal

LA Chinese

AB In the receptor binding assay, the relative affinity ratios of P-7548 (I, R = O2CEt), P-7556 I (R = OBz), and P-7618 I (R = cyclopentylcarbonyloxy) were 56:16:1, 1:4:1, and 6:0.2:1 at  $\mu$ ,  $\delta$ , and  $\kappa$  sites, resp. These compds. possessed a tight binding to  $\mu$  receptor. After washed 4 times, they still inhibited the [3H]ohmefentanyl binding by 70-80%. In the guinea pig ileum, they showed potent and persistent agonist activities, 607, 303, and 181 times resp. that of normorphine. These effects were readily antagonized by naloxone and Mr2266. In the mouse vas deferens (MVD), they also possessed long-lasting agonist activities. The effect of P-7556 on MVD was not antagonized by naloxone and Mr2266, indicating that P-7556 acted on  $\delta$  receptor in MVD. In the rabbit vas deferens, P-7548, P-7556, and P-7618 antagonized the effect of U-50488H. Thus, these azabicyclononanes are a series of opioid ligands with  $\mu$ ,  $\delta$  agonist and  $\kappa$  antagonist activities.

IT 92836-37-8, P-7521 99451-04-4, P-7548
 135052-73-2, P 7617 135052-74-3, P 7616
 135052-75-4, P 7528 135052-76-5, P 7618
 135052-77-6, P 7556 135052-78-7, P 7602
 135052-79-8, P 7608
 RL: BIOL (Biological study)

(opioid receptor binding of,  $\mu-$  and  $\delta-$  and  $\kappa-$  affinity in)

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 99451-04-4 CAPLUS

CN Phenol, 3-[syn-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]-, propanoate (ester) (9CI) (CA INDEX NAME)

MeO-
$$\mathbb{N}$$
 $CH_2-CH_2-Ph$ 

RN 135052-73-2 CAPLUS

CN 2-Butenoic acid, 3-[9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]phenyl ester, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry. Double bond geometry unknown.

RN 135052-74-3 CAPLUS

CN 3-Furancarboxylic acid, 3-[9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]phenyl ester, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 135052-75-4 CAPLUS

CN Cyclopropanecarboxylic acid, 3-[9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]phenyl ester, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 135052-76-5 CAPLUS

CN Cyclopentanepropanoic acid, 3-[9-methoxy-3-(2-phenylethyl)-3-

azabicyclo[3.3.1]non-9-yl]phenyl ester, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 135052-77-6 CAPLUS

CN Phenol, 3-[9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]-, benzoate (ester), syn- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ \text{MeO-} & & & \\ & & & \\ & & & \\ \text{CH}_2\text{--} \text{CH}_2\text{--} \text{Ph} \end{array}$$

RN 135052-78-7 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane-3-ethanol, 9-(3-hydroxyphenyl)-9-methoxy- $\alpha$ -phenyl-, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 135052-79-8 CAPLUS

CN Phenol, 3-[9-methoxy-3-(1-methyl-2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]-, syn- (9CI) (CA INDEX NAME)

L55 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1990:151616 CAPLUS

DN 112:151616

TI A potent and long-lasting ligand, azabicyclononane (P-7521)

AU Chi, Zhiqiang; Jin, Wenqiao

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Progress in Clinical and Biological Research (1990), 328(Int. Narc. Res. Conf. (INRC) '89), 1-4
CODEN: PCBRD2; ISSN: 0361-7742

DT Journal

LA English

AB Competition expts. between P-7521 (I) and subtype-specific ligands for the  $\mu$ ,  $\delta$ , and  $\kappa$  receptors of the mouse brain showed that I had a high affinity for the  $\mu$  receptor, an intermediate affinity for the  $\delta$  receptor, and a low affinity for the  $\kappa$  receptor; its relative affinities for these 3 receptors were 66:8:1, resp. I had agonist activity mainly on  $\mu$  receptors in the guinea pig ileum and the mouse vas deferens. In the rabbit vas deferens, which contains only  $\kappa$  receptors, I antagonized inhibition by the  $\kappa$  ligand U-50488H, with no agonist action. I is proposed as a powerful probe for the study of **opioid** ligand-receptor interactions and of receptor purification

IT **92836-37-8**, P 7521 RL: PROC (Process)

(binding of, to opioid receptor subtypes, specificity of)

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

L55 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:587311 CAPLUS

DN 111:187311

TI Preparation of [3H]3-( $\beta$ -phenethyl)-9 $\beta$ -methoxy-9 $\alpha$ -(m-hydroxyphenyl)-3-azabicyclo[3,3,1]nonane and characterization of its binding to **opioid** receptors of rat brain membrane

AU Ge, Banglun; Zheng, Hongping; Xu, Yunping; Zhong, Gaoren; Gong, Jialing

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Zhongguo Yaolixue Yu Dulixue Zazhi (1989), 3(3), 187-91 CODEN: ZYYZEW; ISSN: 1000-3002

DT Journal

LA English

The title compound, [3H]P-7521, was prepared by reaction of Br-substituted P-7521 with 3H. The radiochem. purity was >95%. A saturable, specific binding of [3H]P-7521 to **opioid** receptors of rat brain membrane was demonstrated. Scatchard anal. indicated the existence of 2 binding sites (KD1 = 0.030 nM, KD2 = 0.75 nM). NaCl (100 mM) showed no effect on the specific binding of [3H]P-7521 to rat brain membrane. Of the specifically bound drug, 50% dissociated in 20 min, while the binding of therest declined extremely slowly, with 35% retained on the membrane after 4 h. Eighty-seven percent of the specifically bound [3H]P-7521 was not removed by 4 extensive washings. [3H]P-7521 may serve as a useful tool for research on **opioid** receptors.

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

IT 123384-62-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and tritiation of)

RN 123384-62-3 CAPLUS

CN Phenol, 3-[9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]-, monobromo deriv. (9CI) (CA INDEX NAME)

D1-Br

L55 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:417552 CAPLUS

DN 111:17552

TI P 7521 - a new irreversible opioid ligand

AU Jin, Wengiao; Fan, Liqun; Chen, Xinjian; Chi, Zhiqiang

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Zhongguo Yaoli Xuebao (1989), 10(3), 205-10 CODEN: CYLPDN; ISSN: 0253-9756

DT Journal

LA English

AB In the receptor binding assay, P 7521 (I) was a potent **opioid** ligand which acted mainly on  $\mu$ -receptor. The relative affinity ratio at  $\mu$ ,  $\delta$  and  $\kappa$  sites was 66:8:1. The inhibitory effects of I were 1868 and 6060 times more potent than morphine on the elec. evoked contractions in guinea pig ileum and mouse vas deferens, resp. and were readily antagonized by naloxone and Mr 2266. Apparently I acts on  $\mu$ -receptor in guinea pig ileum and mouse vas deferens. In rabbit vas deferens, the compound had no agonist activity, but could antagonize the inhibitory effect of U-50488 H, a  $\kappa$ -agonist, showing the antagonistic characterization was on  $\kappa$ -receptor. The dissociation of I binding to **opioid** receptor were very difficult in  $\mu$ -binding assay and bioassays.

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

L55 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:108035 CAPLUS

DN 110:108035

TI P-8502 - a new  $\mu$ -selective opioid receptor ligand

AU Ge, Banglun; Zhang, Hongping; Xu, Yongping; Zheng, Weijun

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Zhongguo Yaoli Xuebao (1989), 10(1), 13-16 CODEN: CYLPDN; ISSN: 0253-9756

DT Journal

LA Chinese

AB The analgesic action of P-8502 and P-8511 (I; R1 = NH2 or fumarylamido, resp.) was compared in mice and rats by the hot-plate and tail-flick methods. The selective binding of the drugs to the **opioid** receptor was also studied in rat brain membrane P2 fractions. Results indicated that P-8502 is a selective  $\mu$ - **opioid** receptor ligand, whereas P-8511 has no such selectivity.

IT 119431-46-8, P 8502 119446-70-7, P 8511 RL: BIOL (Biological study) (analgesia from, as  $\mu$ - opioid receptor ligand, selectivity in)

RN 119431-46-8 CAPLUS

CN Benzenamine, 4-[2-[(9-syn)-9-methoxy-9-(3-methoxyphenyl)-3-azabicyclo[3.3.1]non-3-yl]ethyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 119446-70-7 CAPLUS

CN 2-Butenoic acid, 4-[[4-[2-[(9-syn)-9-methoxy-9-(3-methoxyphenyl)-3-azabicyclo[3.3.1]non-3-y1]ethyl]phenyl]amino]-4-oxo-, methyl ester, (2E)-(9CI) (CA INDEX NAME)

L55 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:18422 CAPLUS

DN 110:18422

TI Effects of the long-acting analgesic 3-( $\beta$ -phenylethyl)-9 $\beta$ -methoxy-9 $\alpha$ -(m-hydroxyphenyl)-3-azabicyclo[3,3,1]nonane (P-7521) on opiate receptor binding in vitro

AU Zhou, Dehe; Ge, Banglun; Xu, Xuejun; Chi, Zhiqiang

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Zhongguo Yaoli Xuebao (1988), 9(6), 511-15 CODEN: CYLPDN; ISSN: 0253-9756

DT Journal

LA Chinese

AB Opiate receptor binding of the title compound and its derivs. (I; R1 = OMe, hydroxyphenyl, methylphenyl, etc.; R2 = OH or OMe) was compared with that of morphine and 14-hydroxydihydromorphazone in rat brain membrane prepns., as determined by inhibition of [3H]etorphine binding. The analgesic potencies were also compared in mice. The title compound bound tightly to the brain opiate receptors.

IT 92836-34-5 92836-36-7 92836-37-8 99451-04-4

RL: BIOL (Biological study)

(analgesia from, brain opiate receptor binding in)

RN 92836-34-5 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methylphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

RN 92836-36-7 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-hydroxyphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

RN 99451-04-4 CAPLUS

CN Phenol, 3-[syn-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]-, propanoate (ester) (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ \text{MeO-} & & & \\ & & & \\ & & & \\ \text{CH}_2\text{-}\text{CH}_2\text{-}\text{Ph} \end{array}$$

L55 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1986:81878 CAPLUS

DN 104:81878

TI Effects of 5 derivatives of 3-azabicyclo[3,3,1]nonanes on isolated guinea pig ileum myenteric plexus-longitudinal muscle

AU Wang, Dayuan; Chi, Zhiqiang

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Zhongguo Yaoli Xuebao (1985), 6(4), 236-8 CODEN: CYLPDN; ISSN: 0253-9756

DT Journal

LA Chinese

AB Five derivs. of 3-azabicyclo[3,3,1]nonanes (I, R1 = MeO or OH; R2 = MeO, 3-MeC6H4, 3-MeOC6H4, or 3-HOC6H4) all inhibited the contraction of guinea pig ileum myenteric plexus-longitudinal muscle (GPIML) induced by elec. stimulation. Except I (R1 = R2 = MeO) [52904-54-8], the inhibitory effects of all the compds. were more potent than that of morphine. The relatively specific  $\mu$  receptor antagonist naloxone completely reversed their inhibitory effects. The concentration-response curves of these compds. were parallel to that of morphine. There were good correlations between inhibitory potencies on the GPIML and analgesic potencies (mouse hot-plate and writhing tests and rat tail-flick test), and binding affinities for the opiate receptors of mouse brain for these 5 compds. Apparently, the analgesic actions of these compds. are mainly related to  $\boldsymbol{\mu}$  receptors. The inhibitory potency of I (R1 = MeO; R2 = 3-HOC6H4) [92836-37-8 ] on the GPIML was 4134 times that of morphine, indicating that the compound had a high affinity for  $\mu$  receptors in the GPIML.

IT 92836-34-5 92836-35-6 92836-36-7 92836-37-8

RL: BIOL (Biological study)

(ileum response to, analgesia and  $\mu$ -opiate receptors in relation to)

RN 92836-34-5 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methylphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

RN 92836-35-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methoxyphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

RN 92836-36-7 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-hydroxyphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

L55 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1986:28684 CAPLUS

DN 104:28684

TI Preparation of tritium-labeled 3-( $\beta$ -phenylethyl)-9 $\beta$ -methoxy-9 $\alpha$ -(m-propionoxyphenyl)-3-azabicyclo[3.3.1]nonane and some characterizations of its binding with opiate receptor from rat brain

AU Zhou, Dehe; Li, Zhiyi; Ni, Chonghu; Wu, Yizhi; Chi, Zhiqiang; Tang, Guozhong; Qian, Baogen

CS Shanghai Inst. Mater. Med., Acad. Sinica, Shanghai, Peop. Rep. China

Kexue Tongbao (Foreign Language Edition) (1985), 30(3), 412-16 CODEN: KHTPBU; ISSN: 0454-0948

DT Journal

SO

LA English

AB In order to study the action of P-7548 (I) [99451-04-4] and its analogs an opiate receptors, the title compound [[3H]P-7548 [99450-92-7]] was prepared by catalytic reduction of 3-( $\beta$ -phenylethyl)-9 $\beta$ -methoxy-9 $\alpha$ -(m-acryloylphenyl)-3-azabicyclo[3.3.1] nonane [99450-93-8] with tritium gas. Some characteristics of [3H]P-7548 binding to opiate receptors from rat brain membranes were studied and were related to the analgesic effects of I.

IT 99451-04-4

RL: BIOL (Biological study)
 (opiate receptors of brain binding by, analgesic activity in relation
 to)

RN 99451-04-4 CAPLUS

CN Phenol, 3-[syn-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]-, propanoate (ester) (9CI) (CA INDEX NAME)

IT 99450-93-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (reduction of, with tritium)

RN 99450-93-8 CAPLUS

CN 2-Propenoic acid, 3-[9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]phenyl ester (9CI) (CA INDEX NAME)

MeO-
$$CH_2$$
- $CH_2$ - $Ph$ 

L55 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1985:39762 CAPLUS

DN 102:39762

TI Relation between analgesic activity and opiate receptor binding affinity of 5 3-azabicyclo[3.3.1]nonane derivatives

AU Wang, Dayuan; Chi, Zhiqiang

CS Shanghai Inst. Mater. Med., Chin. Acad. Sci., Shanghai, 200031, Peop. Rep. China

SO Zhongguo Yaoli Xuebao (1984), 5(3), 158-63 CODEN: CYLPDN; ISSN: 0253-9756

DT Journal

LA Chinese

AB A good correlation was observed between analgesic activity of the 5 3-azabicyclo[3.3.1]nonanes I (R1 = OMe or OH; R2 = OMe, 3-MePh, 3-HOPh, or 3-MeOPh) tested in mice and rats, and inhibition of  $\mu$ -receptor-specific ligand binding in mouse brain plasma membranes.

IT 92836-34-5 92836-35-6 92836-36-7 92836-37-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(analgesic activity of, brain opiate receptor binding in relation to)

RN 92836-34-5 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methylphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

RN 92836-35-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methoxyphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

RN 92836-36-7 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-hydroxyphenyl)-3-(2-phenylethyl)-(9CI) (CA INDEX NAME)

$$HO$$
 $HO$ 
 $CH_2-CH_2-Ph$ 

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

L55 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1975:97815 CAPLUS

DN 82:97815

TI Benzylamines

IN Keck, Johannes; Pieper, Helmut; Krueger, Gerd; Pueschmann, Sigfrid; Noll. Klaus R.

PA Thomae, Dr. Karl, G.m.b.H.

SO Ger. Offen., 89 pp. CODEN: GWXXBX

DE Detect

DT Patent

LA German

PI DE 2318636	 A1			
		19741031	DE 1973-2318636	19730413
DE 2318636	B2	19760701		
DE 2318636	C3	19770210		
AT 7402023	Α	19760115	AT 1974-2023	19740312
AT 332375	В	19760927		
ES 424432	A1	19760601	ES 1974-424432	19740320
SU 517250	D	19760605	SU 1974-2012364	19740404
us 3950393	Α	19760413	US 1974-458099	19740405
СН 592606	A	19771031	CH 1974-528577	19740409
СН 609033	Α	19790215	CH 1977-5284	19740409
CH 609041	Α	19790215	СН 1977-5286	19740409
CH 609034	Α	19790215	CH 1977-5287	19740409
СН 609327	Α	19790228	CH 1974-4931	19740409
СН 609328	Α	19790228	CH 1977-5283	19740409
RO 70260	P	19800315	RO 1974-82360	19740409
RO 69152	P	19810130	RO 1974-78362	19740409
RO 69291	P	19830429	RO 1974-82361	19740409
JP 50012030	A2	19750207	JP 1974-40859	19740410
JP 56034582	В4	19810811		
ZA 7402298	А	19751231	ZA 1974-2298	19740410
ни 167971	В	19760128	HU 1974-TO959	19740410
NO 138250	С	19780802	NO 1974-1350	19740410
NL 7404965	А	19741015	NL 1974-4965	19740411
DD 113748	С	19750620	DD 1974-177856	19740411
GB 1469187	Α	19770330	GB 1974-16254	19740411
CA 1011748	A1	19770607	CA 1974-197507	19740411
CS 188920	P	19790330	CS 1974-2629	19740411
SE 411749	В	19800204	SE 1974-5020	19740411
SE 411749	C	19800522		
BE 813678	A1	19741014	BE 1974-143168	19740412
FR 2225165	A1	19741108	FR 1974-13024	19740412
PL 89811	P	19761231	PL 1974-170327	19740412
PL 96888	P	19780131	PL 1974-181439	19740412
PL 102867	P	19790430	PL 1974-181429	19740412
ES 433891	A1	19761116	ES 1975-433891	19750117
ES 433893	A1	19761116	ES 1975-433893	19750117
ES 433894	A1	19761116	ES 1975-433894	19750117
ES 433890	A1	19761201	ES 1975-433890	19750117
ES 433892	A1	19761216	ES 1975-433892	19750117
SU 521836	D	19760715	SU 1975-2101046	19750130
SU 521837	D	19760715	SU 1975-2101059	19750130
SU 522790	D	19760725	SU 1975-2101048	19750130
SU 543341	D	19770115	SU 1975-2101061	19750130
SU 645553	D	19790130	SU 1975-2101050	19750130

	ΑT	7505020	Α	19751115	AT	1975-5020	19750701
	ΑT	331211	В	19760810			
	ΑT	7505023	Α	19751115	ΑT	1975-5023	19750701
	ΑT	331212	В	19760810			
	ΑT	7505031	Α	19760115	ΑT	1975-5031	19750701
	ΑT	332379	В	19760927			
	ΑT	7505021	Α	19770315	ΑT	1975-5021	19750701
	ΑT	339885	В	19771110			
	ΑT	7505022	Α	19770715	ΑT	1975-5022	19750701
	ΑT	7506429	Α	19751115	AT	1975-6429	19750820
	ΑT	331218	В	19760810			
	US	4006246	Α	19770201	US	1976-649481	19760115
	US	29628	E	19780509	US	1976-746954	19761202
PRAI	DE	1973-2318636	Α	19730413			
	DE	1974-2402989	Α	19740123			
	DE	1974-2405322	Α	19740205			
	ΑT	1974-2023	Α	19740312			
	ES	1974-424432	A3	19740320			
	US	1974-458099	A3	19740405			
ΔB	Ror	azulaminee DD1/D2MI	41 C6H20	"H2MD2D/ /T.	D :	and D1 - a a C1	B ~ E CE3

AB Benzylamines RR1(R2NH)C6H2CH2NR3R4 (I; R and R1 = e.g., C1, Br, F, CF3, CMe3, CN, CO2H; R2 = H, Ac, Bz; R3 and R4 = e.g., Me, Et, Me3C, cyclohexyl) were prepared by the reaction of substituted benzyl chlorides with amines, followed by bromination or chlorination of the aromatic ring or reactions of the side chains. Thus, 22 g 2,3-(AcNH)MeC6H3CH2Br reacted with 20 g Et2NH in 1.6 l. CCl4 to give 2,3-(AcNH)MeC6H3CH2NEt2. About 270 I were prepared, useful as antitussives, as tested on guinea pigs. LD50 data and pharmaceutical formulations were given.

IT 55463-28-0P 55463-31-5P

RN 55463-28-0 CAPLUS

CN Acetamide, N-[4-bromo-5-(1,1-dimethylethyl)-2-[(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)methyl]phenyl]- (9CI) (CA INDEX NAME)

RN 55463-31-5 CAPLUS

CN Benzenamine, 4-bromo-5-(1,1-dimethylethyl)-2-[(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

L55 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1974:535978 CAPLUS

DN 81:135978

TI 3-Azabicyclo[3.3.1]nonanes

IN Ohki, Eiji; Oida, Sadao; Ohashi, Yoshihiko; Takagi, Hiromu

PA Sankyo Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
		<del>-</del>				
ΡI	JP 49061168	A2	19740613	JP 1972-102891	19721014	
PRAI	JP 1972-102891	Α	19721014			
7 D	4 Dll		Ji T /D	- J DO - 1 1 lead - D1	_ 1	

4-Alkoxy-3,5-propanopiperidines I (R and R2 = lower alkyl; R1 = lower alkyl, aralkyl) are prepared by treating 4α (or 4β)-hydroxy analogs (I; R = H) with lower alkanols in the presence of acid. I are analgesic and antitussive agents (no data). Thus, 0.6 g

4α-hydroxy-4β-m-methoxyphenyl-1-phenethyl-3α,5α-propanopiperidine (II) was refluxed with 2 ml concentrated H2SO4 in 20 ml MeOH for 8 hr to give 0.4 g 4β-methoxy-4α-m-methoxyphenyl analog.

Also prepared was I (R = R1 = R2 = Me). II was prepared by heating phenethylamine, cyclohexanone, 37% H2CO, and concentrated HCl in AcOH and treating the 1-phenethyl-3,5-propano-4-piperidone with m-MeOC6H4MgBr.

IT 42471-67-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (methanolysis of)

RN 42471-67-0 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-methoxyphenyl)-3-(2-phenylethyl)-, anti- (9CI) (CA INDEX NAME)

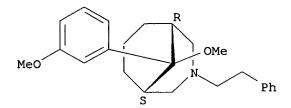
Relative stereochemistry.

IT 42471-71-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 42471-71-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methoxyphenyl)-3-(2-phenylethyl)-, syn-(9CI) (CA INDEX NAME)



L55 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1974:499241 CAPLUS

DN 81:99241

TI 3,5-Propanopiperidine derivatives as potential analgesics

AU Ohki, Eiji; Oida, Sadao; Ohashi, Yoshihiko; Yoshida, Akira; Kamoshita, Katsuo; Takagi, Hiromu

CS Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan

SO Chemical & Pharmaceutical Bulletin (1974), 22(5), 1014-21 CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

AB  $4\beta$ -Methoxy- $4\alpha$ -phenyl- $3\alpha$ ,  $5\alpha$ -propanopiperidine derivs. were prepared and tested biologically. Introduction of m-hydroxy substituent into the phenyl group of these derivs. results in radical potentiation of analgesic and **antitussive** activities. Also, some N-carbamates of these derivs. exhibit appreciable anti-inflammatory effects with analgesic activity.

IT 42471-71-6P 52904-46-8P 92836-37-8P
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(preparation and pharmacol. of)

RN 42471-71-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methoxyphenyl)-3-(2-phenylethyl)-, syn-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 52904-46-8 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-phenyl-3-(2-phenylethyl)-, anti-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

IT 33368-54-6P 42408-10-6P 42471-67-0P

52904-57-1P

RN 33368-54-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-phenyl-3-(2-phenylethyl)-, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 42408-10-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-methoxyphenyl)-3-(2-phenylethyl)-, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 42471-67-0 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-methoxyphenyl)-3-(2-phenylethyl)-, anti- (9CI) (CA INDEX NAME)

RN 52904-57-1 CAPLUS CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-phenyl-3-(2-phenylethyl)-, anti- (9CI) (CA INDEX NAME)

L55 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1973:453184 CAPLUS

DN 79:53184

TI Analgesic and antitussive  $3\alpha$ ,  $5\alpha$ -propano piperidines

IN Iwai, Issei; Ohki, Eiji; Oida, Sadao; Takagi, Hiromu; Ohashi, Yoshihiko

PA Sankyo Co., Ltd.

SO Ger. Offen., 23 pp. CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	DE 2257131	A1	19730524	DE 1972-2257131	19721117
	JP 48056680	A2	19730809	JP 1971-92574	19711118
	US 3812134	Α	19740521	US 1972-304810	19721108
	SE 393610	B.	19770516	SE 1972-14732	19721114
	GB 1374328	Α	19741120	GB 1972-52675	19721115
	NL 7215631	Α	19730522	NL 1972-15631	19721117
	FR 2160593	<b>A</b> 1	19730629	FR 1972-40887	19721117
•	CH 581623	Α	19761115	CH 1972-16828	19721117
	DK 134518	В	19761122	DK 1972-5743	19721117
PRAI	JP 1971-92574	Α	19711118		

AB Five title compds. (I, R = Me, PhCH2CH2; R1 = H, OH, OMe) were prepared and (or) used as analgesics and antitussives. Thus, Grignard reaction of 3-BrC6H4OMe with 1-methyl-3α,5α-propano-4-piperidone in Et2O gave 4α-hydroxy-4β-(3-methoxyphenyl)-1-methyl-3α,5α-propanopiperidine (II) and its 4β-hydroxy-4α-(3-methoxyphenyl) isomer (III). A mixture of II and III was refluxed in MeOH in the presence of H2SO4 8 hr to give I (R = Me, R1 = OMe). The LD50 was <200 mg I (R = PhCH2CH2, R1 = OMe)/kg s.c. in mice.

IT 42408-10-6P 42471-65-8P 42471-67-0P 42471-71-6P 92836-37-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 42408-10-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-methoxyphenyl)-3-(2-phenylethyl)-, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 42471-65-8 CAPLUS

CN 3-Azabicyclo[3.3.1]nonan-9-ol, 9-(3-hydroxyphenyl)-3-(2-phenylethyl)-, anti- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 42471-71-6 CAPLUS

CN 3-Azabicyclo[3.3.1]nonane, 9-methoxy-9-(3-methoxyphenyl)-3-(2-phenylethyl)-, syn- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 92836-37-8 CAPLUS

CN Phenol, 3-[(9-syn)-9-methoxy-3-(2-phenylethyl)-3-azabicyclo[3.3.1]non-9-yl]- (9CI) (CA INDEX NAME)

L55 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1973:72380 CAPLUS

DN 78:72380

TI Terpene compounds as drugs. XV. Basic ethoxyethylethers of guaiacol and eugenol as antitussives

AU Mantegani, Antonio; Donetti, Arturo; Bonardi, Graziano; Molino, Cecilia; Casadio, Silvano

CS Res. Lab., Ist. De Angeli, Milan, Italy

SO Chimica Therapeutica (1972), 7(6), 483-5 CODEN: CHTPBA; ISSN: 0009-4374

DT Journal

LA English

AB The cyclic amines I (R = H, CH2:CHCH2) and 14 amines II (R = H, CH2:CHCH2; R1 = prenyl, geranyl, trans-2,2,6-trimethylcyclohexyl, bornyl, menthyl; R2 = H, Me, prenyl, geranyl) were prepared, for example, by condensing 4,2-R(MeO)C6H3OCH2CH2CH2CH2Cl with the appropriate amine. The compds. showed antitussive activity in rats.

IT 39704-90-0P 39704-91-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 39704-90-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-[2-(2-methoxyphenoxy)ethoxy]ethyl]-1,8,8-trimethyl- (9CI) (CA INDEX NAME)

RN 39704-91-1 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[2-[2-[2-methoxy-4-(2-propenyl)phenoxy]ethoxy]ethyl]-1,8,8-trimethyl- (9CI) (CA INDEX NAME)

Me N— 
$$CH_2$$
—  $CH_2$ —

L55 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1970:477292 CAPLUS

DN 73:77292

TI Physiologically active 5,11-dihydro-6H-pyrido[2,3-b][1,4]benzodiazepine-6-ones

IN Schmidt, Guenther; Engelhorn, Robert; Leitold, Matyas

PA Thomae, Dr. Karl, G.m.b.H.

SO S. African, 41 pp.

CODEN: SFXXAB

DT Patent

LA English

FAN.CNT 1

LWW.	CNII				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	ZA 6905933		19700226		
	DE 1795183			DE	
	FR 2016009			FR	
	GB 1277132			GB	
	US 3660380		19720000	US	
	US 3743734		19730000	US	
PRAI	DE		19680820		
7 D	mb = + + + 1 = /- /	T1 3-43	محاد المستحماء المحادا		af] an

AB The title compds. (I) inhibit secretions and the formation of ulcers and also show antitussive and antiemetic activity, with low toxicity. I are prepared by treating a 5,11-dihydro-6H-pyrido[2,3-b][1,4]benzodiazepin-6-one with a haloacetyl halide and treating the product with a secondary amine. The following I were prepared (R1, R2, and Z given); H, H, 4-methyl-1-piperazinyl (Q); Me, H, Q; H, H, NBu2; H, H, 1-piperazinyl; Me, H, Me; H, H, 2-methylpiperidino. About 25 other examples are given.

IT 28781-51-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 28781-51-3 CAPLUS

CN 6H-Pyrido[2,3-b][1,4]benzodiazepin-6-one, 5,11-dihydro-11-[(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)acetyl]- (8CI) (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ N & Me \\ \hline C - CH_2 - N & Me \\ O & Me \\ \end{array}$$

ANSWER 27 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN L55

AN 1969:77825 CAPLUS

DN 70:77825

Suppressing coughs and increasing secretions in warm-blooded TI animals with N-(amino-3,5-dihalobenzyl) camphidines

IN Keck, Johannes

PA Boehringer Ingelheim G.M.b.H.

SO U.S., 4 pp. CODEN: USXXAM

DT Patent

LΑ English

FAN. CNT 1

T 1271 -	CNII				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 3408446	Α	19681029	US 1967-650204	19670630
	FI 40631	В	19681231	FI 1962-2033	19621113
	SE 300820	В	19680513	SE 1962-12370	19621119
	SE 300990	В	19680520	SE 1964-11622	19621119
	SE 300991	В	19680520	SE 1964-11623	19621119
	FI 40803	В	19690228	FI 1968-1338	19680513
	FI 40804	В	19690228	FI 1968-1405	19680520
PRAI	DE 1961-T21147	Α	19611120		

AΒ The title compds. (I and II) are prepared from camphidine (III) and diacylamino-3,5-dihalobenzyl halides. Thus, 61.3 g. 3,5,4-Br2(Ac2N)C6H2CH2Br was dissolved in 1.5 1. CCl4, mixed with 14.6 g. Et3N and 77.5 g. of a 46.7% solution of III in tetralone, and refluxed 1 hr. After removal of Et3N.HCl, the filtrate was evaporated to dryness and the residue dissolved in 350 ml. EtOH and 190 ml. concentrated HCl. The solution

was

refluxed 25 hrs. to give I (X = Br).HCl, m. 238-41° (decomposition) (EtOH-Et2O). Similarly prepared were the following I.HCl and II.HCl (compound, X and m.p. given): II, Cl, 217-19° (decomposition); I, Cl, 224-6°; II, Br, 109-11°. The effective dose of these compds. is 25-50 mg./kg.

IT 21782-04-7P 21782-05-8P 21782-06-9P

21782-07-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 21782-04-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(4-amino-2,5-dibromobenzyl)-1,8,8-trimethyl-, hydrochloride (8CI) (CA INDEX NAME)

●x HCl

RN 21782-05-8 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-amino-3,5-dichlorobenzyl)-1,8,8-trimethyl-, hydrochloride (8CI) (CA INDEX NAME)

●x HCl

RN 21782-06-9 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(4-amino-3,5-dichlorobenzyl)-1,8,8-trimethyl-, hydrochloride (8CI) (CA INDEX NAME)

●x HCl

RN 21782-07-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-(2-amino-3,5-dibromobenzyl)-1,8,8-trimethyl-, hydrochloride (8CI) (CA INDEX NAME)

●x HCl

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L55 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     1967:46427 CAPLUS
DN
     66:46427
ΤI
     Oxadiazoles, thiadiazoles, and triazoles
PA
     Thomae, Dr. Karl, G.m.b.H.
SO
     Brit., 31 pp.
     CODEN: BRXXAA
DΤ
     Patent
LA
     English
FAN.CNT 1
                    KIND DATE APPLICATION NO.
     PATENT NO.
                                                                  DATE
                        ----
                                _____
     GB 1053085
                                19661230
PΤ
     DE 1470363
                                            DE
     FR 1466258
                                            FR
     FR 4840
                                            FR
     US 3419575
                                19680000
                                            US
PRAI DE
                                19640326
     The title compds. (I), in which X may be O, S, or NH, may have
     antitussive, analgesic, antipyretic, or hypoglycemic properties,
     depending upon the natures of the substituents and of X. To 160 g. BrCN
     in 400 ml. MeOH at 0° was added 220 g. Me2NCH2CONHNH2.HCl (II) in 2
     1. MeOH. After the reactants had dissolved, the mixture was refluxed 2-4
     hrs., the MeOH distilled, the residue dissolved in 150 ml. H2O, the solution
     made alkaline with KOH and extracted with CHCl3, and the exts. dried to give
71.3%
     2-amino-5-(dimethylaminomethyl)-1,3,4-oxadiazole (Ia), m. 134-6°
     (EtOH). Similar treatment of 50 g. (MeEtCH) 2NCH2CONHNH2 with 28 g. BrCN
     gave 84% 2-amino-5-(di-sec-butylaminomethyl)-1,3,4-oxadiazole, m.
     140-2° (Me2CO); and 18 g. MePhNCH2CONHNH2, treated with 10.6 g.
     BrCN, gave 74% 2-amino-5-(N-methylanilinomethyl)-1,3,4-oxadiazole, m.
     216-18° (EtOH). Ia was also prepared in 48.5% yield from 5 g.
     Me2NCH2CONHNHCSNH2.HCl (III) (m. 216-17°; from II and KSCN) and 21
     g. PbO in 200 cc. refluxing EtOH, and in 40% yield from 48 g.
     Me2NCH2CONHNHCONH2 (monohydrochloride m. 197-8°) and 200 cc. POC13
     at reflux one hr. A mixture of 14 g. 1-(N-cyclohexyl-N-methylglycyl)-4-(p-
     tolylsulfonyl)semicarbazide [prepared from N-cyclohexyl-N-methylglycyl
     hydrazide and TsNCS (Ts = p-MeC6H4SO2)] and 70 cc. POC13 was heated one
     hr. on a water bath, cooled, and diluted with 500 cc. petr. ether, the
precipitate
     washed with petr. ether and dissolved in dilute NaOH, and the filtered solution
     adjusted to pH 7 by 10% HCl to give 21% 2-(p-toluenesulfonamido)-5-(N-
     cyclohexyl-N-methylaminomethyl)-1,3,4-oxadiazole, m. 232-5° (dilute
     HOAc). The \beta-(N-methyl-N-cyclohexylamino)propionaldehyde
     hydrochloride from 19 g. \beta-(N-methyl-N-cyclohexylamino)propionaldehyd
     e diethyl acetal (b11 144-6^{\circ}) and 105 cc. 6N HCl, 33 cc. H2O, 13 g.
     H2NCSNHNH2.HCl, and 14.4 g. NaOAc was heated on a water bath, then
     oxidized by 67.7 g. K3Fe(CN)6 in 225 cc. H2O 2-3 hrs., and the mixture made
     alkaline and extracted with CHCl3 to give 68% 2-amino-5-(N-methyl-N-
     cyclohexylaminomethyl)-1,3,4-thiadiazole, m. 162-3° (Me2CO).
     Treatment of 12.2 g. \alpha-(N-methyl-N-cyclohexylamino) acetaldehyde
     4-phenylthiosemicarbazone (IV) in 250 cc. CHCl3 with 6.4 g. Br in 50 cc.
     CHCl3, evaporation, addition of absolute EtOH, addition of solid Na2CO3,
filtration, and
     distillation gave a residue of 12% 2-anilino-5-(N-methyl-N-
     cyclohexylaminomethyl)-1,3,4-thiadiazole (Ib), m. 206-8°
     (MeOH-H2O). Oxidation of 12.2 g. gave IV in 200 cc. EtOH by 10.8\ \mathrm{g}.
     FeCl3.6H2O under reflux 5 hrs. 22% Ib. Concentrated H2SO4 (25 g.) and 5 g. III
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kept at 40-50° 30 min., poured onto 500 g. ice, and neutralized by Na2CO3 gave 25% 2-amino-5-(dimethylaminomethyl)-1,3,4-thiadiazole, m. 218-21° (Et2O); Ac derivative hydrochloride m. 238-40° (MeOH); Bz derivative hydrochloride decomposed 160-1° (EtOH). A mixture of 46.2 g. Et2NCH2CH2C(:NH)OEt.HCl (from Et2NCH2CH2CN, MeOH, and HCl in dioxane) and 18.2 g. H2NNHCSNH2 in 120 cc. absolute EtOH refluxed 2-3 hrs. gave 19.5%  $2-\text{amino}-5-(\beta-\text{diethylaminoethyl})-1,3,4-\text{thiadiazole}$ , m.  $158-60^{\circ}$ (EtOAc). A mixture of 3.7 g. 2-amino-5-diethylaminomethyl-1,3,4-thiadiazole and 3.36 g. NaHCO3 in 30 cc. H2O with 8.24 g. o-MeOC6H4SO2Cl in 20 cc. Me2CO, after 5 hrs. at 20-50°, was acidified with HCl, evaporated to dryness, extracted with hot EtOH, filtered, and cooled to give 65% 2-(o-methoxybenzenesulfonamido)-5-(diethylaminomethyl)-1,3,4-thiadiazole hydrochloride, decomposed 236-8°. In a min. amount H2O were dissolved 10 g. Me2NCH2CONHNHC(:NH)NH2.2HCl (m. 226-8°) and a stoichiometric amount Na2CO3, the solution evaporated to dryness, 100 cc. PhMe added, then distilled,

the residue dissolved in absolute EtOH, and the solution filtered. Ethanolic  $\mbox{HCl}$ 

was added to the filtrate to give 65% 3-dimethylaminomethyl-5-amino-1,2,4-triazole dihydrochloride, m. 233-6°. Similar treatment of 10 g. (CH2:CHCH2)2NCH2CONHNHC(:NH)NH2.2HCl (m. 178-80°) and 3.75 g. NaOH gave 67% 3-diallylaminomethyl-5-amino,1,2,4-triazole dihydrochloride, m. 153-7°; and 7.5 g. Me2NCH2CH2CONHNHC(:NH)NH2.2HCl (m. 172-6°) and 3.3 g. NaOH gave 58% 3-dimethylaminoethyl-5-amino-1,2,4-triazole, m. 180-3° (4:1 EtOAc-EtOH). Addnl. I were prepared which are given in tabular form. The following novel intermediates were prepared by known methods as starting materials: Et2NCH2CH2CONHNHC(:NH)NH2.2HCl, m. 191-3°; QCH2CONHNHC(:NH)NH2.2HCl (Q = morpholino), m. 240-2°; QCH2CH2CONHNHC(:NH)NH2.2HCl, m. 238-9°; C6H11NMeCH2CONHNHCSNH2 (C6H11 = cyclohexyl), m. 206-8°; and C6H11NMeCH2CONHNHCSNHCH2CH:CH2, m. 118-20°. [TABLE OMITTED]

IT 14068-93-0P 14069-47-7P

RN 14068-93-0 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[(5-amino-1,3,4-thiadiazol-2-yl)methyl]-1,8,8-trimethyl- (8CI) (CA INDEX NAME)

RN 14069-47-7 CAPLUS

CN 3-Azabicyclo[3.2.1]octane, 3-[3-(5-amino-s-triazol-3-yl)propyl]-1,8,8-trimethyl- (8CI) (CA INDEX NAME)

L55 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1965:85701 CAPLUS

DN 62:85701

OREF 62:15314a-b

TI Pharmacological studies on guanethidine derivatives. III. Pharmacological actions of several guanethidine derivatives

AU Ozawa, Hikaru; Gomi, Yasuo; Otsuki, Isao

CS Tohoku Univ., Sendai, Japan

SO Yakugaku Zasshi (1965), 85(2), 112-19 CODEN: YKKZAJ; ISSN: 0031-6903

DT Journal

LA Japanese

AB cf. CA 61, 6237a. [2-(4-Methyl-4-aza-hexahydro-lH-azepin-l-yl)ethyl]guanidine sulfate (I) and [2-(4-(p-chlorophenyl)-hexahydro-lH-azepin-l-yl)ethyl]guanidine sulfate (II) showed a hypotensive action on rabbit, rat, and cat, but their activities were weaker than that of guanethidine (III). Unlike III, the pressor action of noradrenaline was not potentiated and that of tyramine was not inhibited by I and II. II and [2-(1,8,8-trimethyl-3-aza-bicyclo[3,2,1]oct-3-yl)ethyl] guanidine sulfate possessed a marked muscle relaxation on a preparation of Rana nigromaculata. Their activities were found to be almost the same as that of succinylcholine chloride. Analgesic, antitussive and antispasmodic activities were not as strong. An introduction of substituents in a 7-membered ring resulted in a decrease in hypotensive activity and an increase in toxicity.

IT **2847-69-0**, Guanidine, [2-(1,8,8-trimethyl-3-azabicyclo[3.2.1]-oct-3-yl)ethyl]-, sulfate

(effect on blood pressure, muscle-nerve transmission, etc.)

RN 2847-69-0 CAPLUS

CN Guanidine, [2-(1,8,8-trimethyl-3-azabicyclo[3.2.1]oct-3-yl)ethyl]-, sulfate (7CI, 8CI) (CA INDEX NAME)

CM 1

CRN 13901-32-1 CMF C13 H26 N4

CM 2

CRN 7664-93-9 CMF H2 O4 S

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L55 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     1964:432184 CAPLUS
     61:32184
DN
OREF 61:5564a-h
     Preparation of new dihaloaminobenzylamines
     Dr. Karl Thomae G.m.b.h.
     34 pp.
SO
DT
     Patent
LΑ
     German
                                             APPLICATION NO.
     PATENT NO.
                         KIND
                                                                      DATE
                                DATE
                         ----
                                  _____
                                              _____
                                  19630520
                                              BE
PΙ
     BE 625022
     DE 1169939
                                               DΕ
     FR M2770
                                               FR
     GB 968254
                                               GB
PRAI DE
                                  19611120
     I, useful for pharmaceutical purposes, where X is Cl or Br, were prepared by
     (a) chlorination or bromination of aminobenzylamines, (b) amination of
     acylaminodihalobenzyl halide followed by hydrolysis, or (c) reduction of
     dihalonitrobenzylamines. Br (11.6 g.) in 50 cc. CHCl3 was added dropwise
     to 2-aminobenzyldiethylamine in 50 cc. CHCl3, the CHCl3 extracted with 100 cc.
     2N NaOH and concentrated, and the residue dissolved in 50 cc. EtOH, and treated
     with HCl to give N-(2-amino- 3,5-dibromobenzyl)diethylamine-HCl (II), m.
     214-14.5^{\circ}. Br (39.5 g.) in 150 cc. AcOH was added dropwise to 12.6
     g. N-(4- aminobenzyl)diethylamine in 150 cc. AcOH to give N-(4-amino-
     3,5-dibromobenzyl)diethylamine-HBr (III), m. 218° (decomposition)
     (EtOH). N- (2 - Amino - 3,5 - dibromobenzyl)diisobutylamine-HBr, m.
     165-7°, was prepared similarly. 2-Diacetylamino-3,5- dibromobenzyl
     bromide (24.7 g.) was boiled 24 hrs. with 11.8 g. diallylamine in 300 cc.
     EtOH, the mixture distilled, the residue dissolved in 1 l. 3N HCl, refluxed 12
     hrs., made alkaline, and extracted with CHCl3 to give N-(2-amino-3,5-
     dibromobenzyl)diallylamine- HCl, m. 109-13°. Prepared in similar
     manner were N-(4-amino- 3,5-dibromobenzyl)diallylamine-HCl, m.
     191-5°, N-(2-Amino- 3,5-dibromobenzyl) - N - methylcyclohexylamine
     - HCl (IV.HCl), m. 232-5°, and N-(4-amino-3,5-dibromobenzyl)
     -N-methylbenzy lamine-HBr, m. 202-6°. Other IV salts were prepared
     (salt and m.p. given): p-MeC6H4SO3H, 218 -19°; HClO4,
     132.5-4°; H3PO4, 137-8.5°; HBr, 227.5-8°; (CO2H)2,
     182-3°; HCl, 240-2°; HNO3, 135-6°; H2SO4,
     108-9°. Br (34 g.) in 500 cc. CHCl3 was added portionwise to 17 g.
     N-(2-aminobenzyl)pyrrolidine in 500 cc. CHCl3 at the b.p. to give
     N-(2-amino-3,5- dibromobenzyl)pyrrolidine-HCl, m. 219-20°.
     N-(2-Amino-3,5- dibromobenzyl)piperidine-HCl, m. 244-5°, was prepared
     in similar manner to II. I (2-amino) prepared by method a were (X, R, R1,
     salt, m.p. given): Br, Me, Me, HCl, 235-7°; Br, Pr, Pr, HCl,
     153-6°; Br, iso-Pr, iso-Pr, HCl, 159-60°; Br, C5H11, C5H11,
     HCl, 111-13°; Br, isohexyl, isohexyl, HCl, 209-15° Br, Et,
     PhCH2, HBr, 179-82°; Br, PhCH2, PhCH2, HBr, 192-6°; Br, Me,
     Me, HCl, 252-6°; Br, Pr, Pr, HBr, 227°; Br, iso-Pr, iso-Pr, HCl, 141-4°; Br, Me, C6H11, HCl, 232-5° Br, (RR1 = ) pentamethylene, HBr, 224-6°; Br, Et, PhCH2, HBr, 198-203°; Br, PhCH2, PhCH2, HCl, 233-5°. I (2-amino) prepared by method b were
     (X, R, R', salt, m.p. given): Br, C6H11, C6H11, HBr, 308-12°; Br,
     Et, Et, HCl, 123-30°; Br, (RR' = )tetramethylene, HCl, 200-5°; Br, Et, Ph, HCl, 211-15°. 3,5-Dichloro-2-
     acetamidotoluene (19 g.) was refluxed in 250 cc.Ac2O for 2 hrs. to give
     3,5-dichloro-2-diacetylaminotoluene (V), m. 84-6° (EtOH). V (15.1
     g.) was refluxed with 11.0 g. N-bromosuccinimide and 0.5 g. Bz20 in 250
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cc. CCl4 to give 3,5,2-Cl2-(Ac2N)C6H2CH2Br (VI), m.  $122-5^{\circ}$ . VI (9.5 g.) was refluxed 18 hrs. with 5 g. piperidine and 250 cc. EtOH to produce N-(2- amino-3,5-dichlorobenzyl)piperidine-HCl, m. 234-5°. Prepared in similar manner were I (position of H2N, X, R, R', salt, and m.p. given): 4, Cl, Me, C6H11, -, - (free base m. 62-4°); 2, Cl, Me, C6H11, HCl, 224-5°; 2, Cl, iso-Bu, iso-Bu, HCl, 142-8°; 4, Cl, Et, Et, H2SO4, 132-4° 4, Cl, PhCH2, PhCH2, HCl,  $237.5-238^{\circ}$ ; 2, Br, (RR'N = ) camphidino, -, - (free base m. 109-11°); 4, Br, (RR'N =) camphidino, HCl, 238-41°. o-02 NC6H4CHO (1.51 g.) was refluxed 5 hrs. with 0.73 g. iso-BuNH2, distilled, the residue dissolved in 40 cc. AcOH and 1.64 g. AcoNa, 3.2 g. Br in 10 cc. AcOH added dropwise, and the mixture worked up with CCl4 to give 2.56 g. N-(2-amino-3,5-dibromobenzyl)isobutylamine (VII); VII.HCl X. 211-31°. Prepared in similar manner were I (position of H2N, X, R, R', salt, m.p. given): 4, Br, H, C6H11, HCl, 259-62°; 2, Br, H, C6H11, HCl, 247-8°; 4, Br, H, iso-Bu, HCl, 180-3°; 4, Br, cyclopentyl, cyclopentyl, HCl, 189-97°. N-(2-Nitro-3,5dibromobenzyl)-N- methylcyclohexylammonium chloride was hydrogenated to produce N-(2-amino-3,5-dibromobenzyl-N-methylcyclohexylamine, m. 235-5.5° (EtOH). Prepared in same manner was I (2-amino): Br, H, Me, HBr, m. 244-7°. N-(2-Amino-3,5-dibromobenzyl) methylamine (4.4 g.) was heated 8 hrs. with 50 cc. EtOH and 1.9 g. PhCH2Cl, treated with 100 cc. 2N NaOH, extracted with CHCl3, dried over Na2SO4, concentrated. dissolved

EtOH, treated with 2 cc. concentrated HBr and recrystd. from EtOH to give N-(2-amino-3,5-dibromobenzyl)-N-methylbenzylamine-HBr, m. 218.5-219°. I have low toxicities, abate secretions, calm coughs, inhibit monoamine oxidase, and are antipyretics. Pharmacol. tests are described.

IT 21782-04-7, 3-Azabicyclo[3.2.1]octane, 3-(4-amino-3,5dibromobenzyl)-1,8,8-tri-methyl-, hydrochloride 94804-17-8,
3-Azabicyclo[3.2.1]octane, 3-(2-amino-3,5-dibromobenzyl)-1,8,8-trimethyl(preparation of)

RN 21782-04-7 CAPLUS

in

CN 3-Azabicyclo[3.2.1]octane, 3-(4-amino-2,5-dibromobenzyl)-1,8,8-trimethyl-, hydrochloride (8CI) (CA INDEX NAME)

#### ●x HCl

RN 94804-17-8 CAPLUS
CN 3-Azabicyclo[3.2.1]octane, 3-(2-amino-3,5-dibromobenzyl)-1,8,8-trimethyl(7CI) (CA INDEX NAME)

Me N— 
$$CH_2$$
—  $Br$ 
Me  $Me$   $H_2N$ 
Br

ANSWER 31 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

```
1963:403332 CAPLUS
AN
DN
     59:3332
OREF 59:547f-h,548a-d
ΤI
     Syntheses in the benzylamine series
ΑU
     Keck, Johannes
     Dr. Karl Thomae G.m.b.H., Biberach, Germany
CS
SO
     Ann. (1963), 662, 171-7
DT
     Journal
LА
     Unavailable
AB
     The preparation of a series of 2-amino- and 4-amino-3,5-dihalobenzylamines is
     described. Some of the new benzylamine derivs. surpass Vasicin in their
     physiol. action on the respiratory tract. o-O2NC6H4CH2Br (149 g.) and 80
     g. 95% N-methylcyclohexylamine in 0.5 l. absolute EtOH refluxed 5 hrs., diluted
     with about 100 cc. H2O, concentrated, adjusted with 2N NaOH to pH 10, and
extracted
     with CHCl3 yielded 149 g. N-(o-nitrobenzyl)-N-methylcyclohexylamine (I),
     b0.06 116-19°. I (300 g.) in 2 l. MeOH containing Raney Ni treated
     dropwise with stirring with 170 g. 80% N2H4.H2O in 0.5 l. MeOH and then
     with addnl. catalyst, and again 30 g. N2H4.H2O, refluxed 2 hrs., filtered,
     and distilled yielded 254 g. o-NH2 analog (II) of I, b0.08 109-11°.
     II (250 q.) in 2.5 l. AcOH treated dropwise with stirring with 420 q. Br
     in 0.5 l. AcOH, the supernatant decanted, the resinous residue shaken with
     2 1. 5N NaOH and 2 1. CHCl3, and the residue from the CHCl3 phase
     dissolved in warm absolute EtOH and treated with dry HCl yielded 182 g.
     N-(3,5-dibromo-2-aminobenzyl)-N-methylcyclohexylammonium chloride (III),
     m. 237.5-38° (decomposition). 3,5,2-Cl2(AcNH)C6H2Me (19 g.) and 250 cc.
     Ac20 refluxed 2 hrs. and evaporated yielded 15.1 g. 3,5,2-Cl2(Ac2N)C6H2Me
     (IV), m. 84-6° (EtOH). IV (15.1 g.), 11.0 g. N-bromosuccinimide,
     and 0.5 g. Bz202 in 250 cc. CCl4 refluxed about 10 hrs., cooled, filtered,
     and evaporated gave 12.5 g. 3,5,2-Cl2(Ac2N)C6H2Br (V), m. 122-5
     (EtOH). V (9.5 g.) and 5 g. piperidine in 250 cc. EtOH refluxed 18 hrs.
     and evaporated, the residue refluxed 18 hrs. with 1 l. 3N HCl, basified with
     10N NaOH to pH 10, and extracted with CHCl3, and the oily residue from the
     extract dissolved in 50 cc. absolute EtOH and treated with dry HCl gave 2.3 g.
     N-(2-amino-3,5-dichlorobenzyl)piperidinium chloride, m. 234-5
     (decomposition). Similarly was prepared the 3,5-Cl2 analog of III, m.
     224-5°. 3,5,2-Br2(Ac2N)C6H2Me (2.0 g.) in 30 cc. CC14 refluxed
     with 1.2 g. N-bromosuccinimide and 25 mg. Bz202 yielded 0.4 g.
     3,5,2-Br2(Ac2N)C6H2CH2Br (VI), m. 116-17° (petr. ether). VI (3.3
     g.) and 1.5 g. dry pyrrolidine in 70 cc. absolute EtOH refluxed 9 hrs.,
     treated with 70 cc. 2N HCl, concentrated, washed with Et20, basified with 10N
     NaOH, and extracted with Et2O gave 1.55 g. N-(3,5-dibromo-2-
     acetaminobenzyl)pyrrolidine (VII), m. 148-9° (petr. ether-EtOH).
     VII (1.55 g.) and 100 cc. 2N HCl refluxed 2 hrs., cooled, basified with
     10N NaOH, and extracted with CHCl3, and the oily residue from the extract
     in a little absolute EtOH with concentrated HCl gave 0.5 g. N-(3,5-dibromo-2-
     aminobenzyl)pyrrolidinium chloride, m. 221.5-23°. By these methods
     were prepared the following 2,4,6-Br2(RCH2)C6H2NH2.HCl (R and m.p. given):
     Me2N, 230-2° (decomposition); Et2N, 217.5-19.5° (decomposition); Pr2N,
     158-62°; (iso-Pr)2N, 179.5-82°; (iso-PrCH2CH2)2N,
     151-6°; (CH2:CHCH2)2N, 123.5-5.5°; N-cyclohexyl-N-ethylamino, 206.5-209°; piperidino, 242.5-45°,
     2-methylpiperidino, 212.5-16° (decomposition); 3-methylpiperidino,
     224-7°; 4-methylpiperidino, 246.5-48° (decomposition);
     2-ethylpiperidino, 223.5-5.5°; morpholino, 239-40.5°
     (decomposition); N-methyl-N-2-pyridylmethylamino, 198.5-201°; (PhCH2)2N,
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221.5-23° (decomposition); 1,8,8-trimethyl-3-azabicyclo[3.2.1]-3-octvl, - (free base, m. 111-13°). Similarly were prepared the following 2,4,6-Br2(RCH2)C6H2NH2.HBr (R and m.p. given): Am2N, 123-4°; dicyclohexylamino, 307-9° (decomposition); Me(PhCH2)N, 218.5-19° (decomposition); Et(PhCH2)N, 187-9.5°. By the same methods were prepared the following 2,6,4-Br2(RCH2)C6H2NH2.HCl (R and m.p. given): Me2N, 250-3°; Et2N, 233-6°; Bu2N, 133.5-35°; iso-Bu2N, 152-5°; Am2N, 159-60.5°; (iso-Pr2CH2CH2)2N, 164.5-6.5°; (C6H13)2N, 80-4°; (CH2:CHCH2)2N, 190-7°; N-cyclohexyl-N-ethylamino, 210.5-12°; 2-methylpiperidino, 94-7°; 2-ethylpiperidino, 213-15°; (PhCH2)2N, 224.5-26°; N-methyl-N-2-pyridylmethylamino, 208-11° (decomposition); 1,8,8-trimethyl-8-azabicyclo[3.2.1]-3-octyl, 237-41°. Similarly were prepared the following 2,6,4-Br2(RCH2)C6H2NH2.HBr (R and m.p. given): piperidino, 233.5-4.5° (decomposition); Me(PhCH2)N, 195-9°; Et(PhCH2)N, 200-6°. In the same manner was obtained 2,6-dibromo-4-dibenzylaminoaniline-HCl, m. 237.5-38° (decomposition). 21782-04-7, 3-Azabicyclo[3.2.1]octane, 3-(4-amino-3,5-ΙT dibromobenzyl)-1,8,8-tri-methyl-, hydrochloride 94804-17-8, 3-Azabicyclo[3.2.1]octane, 3-(2-amino-3,5-dibromobenzyl)-1,8,8-trimethyl-(preparation of) RN21782-04-7 CAPLUS CN 3-Azabicyclo[3.2.1]octane, 3-(4-amino-2,5-dibromobenzyl)-1,8,8-trimethyl-, hydrochloride (8CI) (CA INDEX NAME)

•x HCl

RN 94804-17-8 CAPLUS
CN 3-Azabicyclo[3.2.1]octane, 3-(2-amino-3,5-dibromobenzyl)-1,8,8-trimethyl(7CI) (CA INDEX NAME)

=> s guaifenesin?

L56 411 GUAIFENESIN?

=> s 147 and 156

187 L47

L57 0 L47 AND L56

=> s 154 and 156

L58 115 L54 AND L56

=> s treat? (1) cough?

3190436 TREAT?

5176 COUGH?

L59 1381 TREAT? (L) COUGH?

=> s 156 and 159

L60 14 L56 AND L59

=> d 160 1-14 bib,ab

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ANSWER 1 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
L60
     2004:49102 CAPLUS
AN
DN
     140:87653
     Effect of quaifenesin on cough reflex sensitivity
TI
ΑU
     Dicpinigatiis, Peter V.; Gayle, Yvonne E.
     Department of Medicine, Albert Einstein College of Medicine/Montefiore
CS
     Medica/ Center, Bronx, NY, USA
     Chest (2003), 124(6), 2178-2181
CODEN: CHETBF; ISSN: 0012-3692
SO
    American College of Chest Physicians
PB
     Journal
DT
LΑ
     English
     Guaifenesin, a commonly used agent for the treatment
AB
     of cough, is termed an expectorant since it is believed to
     alleviate cough discomfort by increasing sputum volume and
     decreasing its viscosity, thereby promoting effective cough.
     Despite its common usage, relatively few studies, yielding contrasting
     results, have been performed to investigate the action and efficacy of
     guaifenesin. The purpose of this study was to evaluate the effect
     of quaifenesin on cough reflex sensitivity. A
     randomized, double-blind, placebo-controlled trial was conducted at an an
     academic medical center. Fourteen subjects with acute viral upper
     respiratory tract infection (URI), and 14 healthy volunteers participated.
     On 2 sep. days, subjects underwent capsaicin cough challenge 1
     to 2 h after receiving a single, 400-mg dose (capsules) of
     guaifenesin or matched placebo. The concentration of capsaicin inducing
     five or more coughs (C5) was determined Among subjects with URI,
     mean (± SEM) log C5 after quaifenesin and placebo were 0.92
     \pm 0.17 and 0.66 \pm 0.14, resp. (p = 0.028). No effect on
     cough sensitivity was observed in healthy volunteers. Our results
     demonstrate that quaifenesin inhibits cough reflex
     sensitivity in subjects with URI, whose cough receptors are
     transiently hypersensitive, but not in healthy volunteers. Possible
     mechanisms include a central antitussive effect, or a peripheral effect by
     increased sputum volume serving as a barrier shielding cough
     receptors within the respiratory epithelium from the tussive stimulus.
              THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L60 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
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AN 2003:912596 CAPLUS

DN 139:386391

TI Sustained release of guaifenesin combination drugs

IN Davis, Robert D.; Blume, Ralph W.; Keyser, Donald Jeffrey

PA USA

SO U.S. Pat. Appl. Publ., 95 pp., Cont.-in-part of U.S. Ser. No. 121,706. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 6

PAN.CNI 6				
PATENT NO.	KIND	DATE \	APPLICATION NO.	DATE
		// \		
PI US 200321550	8 A1	20031120	US 2003-413530	20030415
US 6372252	B1	20020416	US 2000-559542	20000428
US 200304931	8 A1	∜ 20030313	US 2002-121706	20020415
PRAI US 2000-5595	42 A2	\2000042₿		
US 2002-1217	06 A2	2002041/5		

The invention relates to a novel pharmaceutical modified release AB formulation of quaifenesin and dextromethorphan. The formulation may comprise a hydrophilic polymer, preferably a hydroxypropyl Me cellulose, and a water-insol. polymer, preferably an acrylic resin, in a ratio range of about one-to-one (1:1) to about nine-to-one (9:1), more preferably a range of about three-to-two (3:2) to about six-to-one (6:1), and most preferably in a range of about two-to-one (2:1) to about four-to-one (4:1) by weight This formulation capable of providing therapeutically effective bioavailability of quaifenesin for at least twelve hours after dosing in a human subject. The invention also relates to a modified release product which has two portions: a first portion having an immediate release formulation of quaifenesin and a second portion having a sustained release formulation of quaifenesin, wherein one or both portions further comprises dextromethorphan. The modified release product has a maximum quaifenesin serum concentration equivalent to that of an immediate release guaifenesin tablet, and is capable of providing therapeutically effective bioavailability of quaifenesin for at least twelve hours after dosing in a human subject. For example, bilayer tablets were prepared comprising (i) a sustained-release layer containing quaifenesin 101.00 mg, dextromethorphan HBr 4.50 mg, Carbopol 974P 1.50 mg, Methocel E10M 5.00 mg, D&C Yellow Number 10 0.04 mg, and magnesium stearate 1.00%, and (ii) an immediate release layer containing quaifenesin 45.60 mg, dextromethorphan HBr 3.60 mg, Explotab 3.60%, Avicel PH102 40.32 mg, Methocel E10M 2.40 mg, and magnesium stearate 0.48%.

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ANSWER 3 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
L60
AN
     2003:633408 CAPLUS
     139:159977
DN
     Treatment of colds and cough with a combination of a
TI
     cyclooxygenase-2 selective inhibitor and a colds and cough
     active ingredient, and compositions thereof
     MacMillan, Stephen P.
IN
PA
     Pharmacia Corporation, USA
SO
     PCT Int. Appl., 147 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                                 DATE
                                              APPLICATION NO.
                                                                       DATE
                          KIND
                          ____
                                              _____
                                 20030814
PΙ
     WO 2003065988
                           A2
                                              WO 2003-US3221
                                                                      20030204
                                 20040219
     WO 2003065988
                           А3
             AE, AG, AL, AM, AT,
                                  AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG,
                                           MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC,
                                  SD, SE,
                                           SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC,
                                  VN, YU,
                                           ZA, ZM, ZW
                                           SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
         RW: GH, GM, KE, LS, MW, MZ, SD,
             KG, KZ, MD, RU, TJ, TM, AT,
                                           BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, NE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     CA 2474016
                                 200308/14
                                              CA 2003-2474016
                           AΑ
                                                                      20030204
     US 2004029864
                                              US 2003-357747
                                                                      20030204
                           A1
                                  20040212
     EP 1471872
                                              EP 2003-707692
                           A2
                                  20041103
                                                                      20030204
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     BR 2003007755
                           Α
                                 20041207
                                              BR 2003-7755
                                                                      20030204
PRAI US 2002-354135P
                           Ρ
                                  20020204
     WO 2003-US3221
                           W
                                 20030204
AΒ
     A method for the treatment, prevention and amelioration of colds
     and/or cough in a subject in need of such treatment,
     prevention and amelioration, comprises administering to the subject a
     cyclooxygenase-2 selective inhibitor (e.g. celecoxib; preparation given), or
     prodrug thereof, and one or more colds and cough active
     ingredient. Compns., pharmaceutical compns. and kits for practicing the
     method are also disclosed.
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L60 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
AN
    2003:241987 CAPLUS
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DN 138:243343

Tannate compositions for treatment of upper respiratory disorders ΤI

Venkataraman, Balaji IN

PA

SO U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S. 6,509,492. CODEN: USXXCO

DTPatent

English LΑ

AΒ

FAN.	CNT 3				
	PATENT NO.	KIND	pate <sup>(</sup>	APPLICATION NO.	DATE
			//	- <del></del>	
ΡI	US 2003060422	A1	/ 20,030327	បន្ទំ 2002–56805	20020125
	US 6509492	B1	20030121	บร์ 2001-952711	20010914
PRAI	US 2001-316548P	P	20010831	/	
	US 2001-952711	A2	20010914	/	

The present invention is directed to methods and compns. for treating upper respiratory indications, such as the treatment, management or mitigation of cough, cold, cold-like symptoms, symptoms related to upper respiratory infections, influenza symptoms and allergic rhinitis, perennial rhinitis, nasal and Eustachian tube congestion in an animal by administration of tannate compns. comprising single agent (amine drug tannate) formulations or combinations of at least 1 or more agents into a single administrative dose. As an example, pseudoephedrine tannate at 75-300 mg/5 mL can be used.

L60 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN AN 2002:807277 CAPLUS DN 137:299959 Antitussives for the treatment of common cold cough TI Okudaira, Ichiro; Ichihara, Takashi; Nakagami, Joji; Aikawa, Katsuyoshi; Nakagawa, Yasuo Taisho Pharmaceutical Co., Ltd., Japan PA SO Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF DTPatent LА Japanese FAN.CNT 1 PATENT NO. KIND APPLICATION NO. DATE JP 2001-110461 20010409 PΙ

JP 2002308761 A2 20021023 PRAI JP 2001-110461 20010409 This invention relates to antitussive's comprising (1)  $\geq$  1 compds. selected from the group consisting of codeine (or its related compds.), xanthine (or its related compds.), alloclamide, cloperastine, tipepidine, pentoxyverine, and/or salts thereof and (2) pseudoephedrine. For example, a capsule (200 mg each) contained codeine phosphate 48, noscapine 36,

pseudoephedrine hydrochloride 80, chlorpheniramine maleate 12, guaifenesin 150, lactose 350, microcryst. cellulose 255, and Mg stearate 15 parts.

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ANSWER 6 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
L60
AN
     2002:385008 CAPLUS
DN
     136:390999
     Oral compositions containing coolants and sweeteners having improved
ΤI
     consumer aesthetics
     Lee, Kuo-Chung Mark
IN
     The Procter & Gamble Company, USA
PA
SO
     U.S., 8 pp.
     CODEN: USXXAM
DT
     Patent
LΑ
     English
FAN.CNT 1
                                  DÁTE
                                               APPLICATION NO.
                                                                        DATE
                          KIND
     PATENT NO.
                                               ______
                                  20020521
                                               US 2000-729406
                                                                        20001204
PΙ
     US 6391886
                            В1
     WO 2002045714
                           A1
                                  20020613
                                               WO 2001-US45035
                                                                        20011130
         W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
              MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL,
              TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
              KZ, MD, RU, TJ
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
              CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
              BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                  20020618
                                            AU 2002-39397
                                                                        20011130
     AU 2002039397
                           Α5
                                               EP 2001-987156
                                  20030903
                                                                        20011130
     EP 1339408
                           A1
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                               JP 2002-547498
                                                                        20011130
     JP 2004515478
                           T2
                                  20040527
PRAI US 2000-729406
                            Α
                                  20001204
     WO 2001-US45035
                            W
                                  20011130
     Oral compns. containing therapeutic agents wherein the undesirable consumer
AΒ
     aesthetics associated with these agents are mitigated using coolants and
     sweeteners. Thus, a cough treatment composition contained
     dextromethorphan 2.20. propylene glycol 42.45, Pluronic-F127 29.71, water
     12.08, EtOH 10.91, sodium metabisulfite 0.10, disodium EDTA 0.10,
     Eucalyptus flavor 0.45, menthol 0.20 WS-3 0.15, 1-menthone-/D-isomenthone
     glycerin ketal (MGA) 0.30, 3-1-menthoxypropane-1,2-diol 0.10, sodium
     saccharin 0.60, potassium acesulfame 0.50, and monoammonium
     glycyrrhizinate 0.15%.
RE.CNT 17
               THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

ANSWER 7 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN L60 AN 2001:406245 CAPLUS DN 135:10046 Pharmaceutical compositions containing dimemorfan for pharynx TI Kitahara, Akemi; Takenaga, Takaaki IN Taisho Pharmaceutical Co., Ltd., Japan PA Jpn. Kokai Tokkyo Koho, 5 pp. SO CODEN: JKXXAF DТ Patent LΑ Japanese FAN.CNT 1 PATENT NO. KIND APPLICATION NO. DATE \_\_\_\_\_\_ \_\_\_\_ /20010605 JP 1999-336433 19991126 JP 2001151677 A2 PIPRAI JP 1999-336433 19991126 The invention relates to a pharmaceutical composition, e.g. tablet, capsule, and liquid, for use for treatment of sore throat, pharyngeal inflammation caused by coughing, etc., wherein the pharynx composition contains (a) dimemorhan and (b) ambroxol, bromhexine, quaifenesin, chlorpheniramine, carbinoxamine, and/or mequitazine. Capsules were prepared from dimemorfan phosphate 30, noscapine 60, chlorpheniramine maleate 12, DL-methylephedrine hydrochloride 75, quaifenesin 125, caffeine anhydride 150, lactose 112, crystalline cellulose 82, and magnesium stearate 14 g.

- L60 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 1999:675272 CAPLUS
- DN 132:160660
- TI Effects of drugs on mucus clearance
- AU Houtmeyers, E.; Gosselink, R.; Gayan-Ramirez, G.; Decramer, M.
- CS Respiratory Muscle Research Unit, Laboratory of Pneumology and Respiratory Division, Faculty of Physical Education and Physiotherapy, Katholieke Universiteit Leuven, Louvain, Belg.
- SO European Respiratory Journal (1999), 14(2), 452-467 CODEN: ERJOEI; ISSN: 0903-1936
- PB Munksquard International Publishers Ltd.
- DT Journal; General Review
- LA English
- AB A review with 152 refs. Mucociliary clearance (MCC), the process in which airway mucus with substances trapped within are moved out of the lungs, is an important mechanism of the human body. Drugs may alter this process, such that it is to know the effect of the drugs on MCC. Indeed, agents stimulating MCC be used therapeutically in respiratory medicine, especially in patients suspected an impairment of their mucociliary transport system. In contrast, caution be taken with drugs depressing MCC as an undesired side-effect, of their therapeutic indication. Since cough clearance (CC) serves as a back-up when MCC fails, the influence of drugs must be examined not only on MCC also on CC. Ultimately, the clin. repercussions of alterations in mucus transport by drug administration must be studied. Ammonium compds. (anticholinergics), aspirin, anesthetic agents and have been shown to be capable of depressing the mucociliary system. Cholinergics, methylxanthines, sodium cromoglycate, hypertonic saline, as well as water aerosol have been shown to increase MCC. Adrenergic, guaifenesin, S-carboxymethylcysteine, sodium 2-mercapto-ethane and frusemide have been reported not to alter the mucociliary transport . Amiloride, UTP (UTP), quaternary ammonium (anticholinergics), adrenergic agonists, corticosteroids, recombinant human (rhDNase), N-acetylcysteine, bromhexine and ambroxol have been either not to change or to augment MCC. Indirect data suggest that as well as antibiotics may improve the mucociliary transport system. For the influence of drugs on CC, amiloride and rhDNase have been to increase the effectiveness of cough. A trend towards an improved CC was after treatment with adrenergic agonists. The anticholinergic agent ipratropium, which is a quaternary ammonium compound, has been suggested to CC significantly. Bromhexine, ambroxol and neutral saline seemed not to CC, either pos. or neg. Finally, treatment with either amiloride, recombinant human DNase,, ambroxol, N-acetylcysteine, S-carboxymethylcysteine or hypertonic has been suggested as a possible cause of clin. improvement in patients, such experience of dyspnea, the case of expectoration or the frequency of infective . Other agents did not show a clin. benefit.
- RE.CNT 152 THERE ARE 152 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L60 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 1999:502403 CAPLUS
- DN 132:58986
- TI An in vitro comparison of the mucoactive properties of **guaifenesin**, iodinated glycerol, surfactant, and albuterol
- AU Rubin, Bruce K.
- CS Department of Pediatrics, Wake Forest University School of Medicine, Winston-Salem, NC, USA
- SO Chest (1999), 116(1), 195-200 CODEN: CHETBF; ISSN: 0012-3692
- PB American College of Chest Physicians
- DT Journal
- LA English
- Study objective: The mechanism of action of potential mucoactive agents AΒ could relate to effects on the mucociliary apparatus or to direct effects on the secretions. The purpose of this study was to determine the in vitro effects of several agents on the properties of mucus simulants and sputum collected from 30 adults with stable chronic bronchitis. Design: Sputum or simulants were analyzed untreated and after the addition of the test agent at 1:5 volume to volume ratio for a contact period of 60 s. The concns. of the agents were as follows: guaifenesin, 20 mg/mL; iodinated glycerol, 3 mg/mL; surfactant (Exosurf; Glaxo Well-come; Research Triangle Park, NC) containing 13.5 mg of phospholipid per mL; albuterol, 5 mg/mL; and amphibian Ringer's solution (ARS) as a control. Dynamic viscoelasticity and surface mech. impedance were measured in a magnetic microrheometer. Cohesiveness was measured using a filancemeter. The wettability of a hydrophilic surface was measured using an image processing system. The mucociliary transportability of sputum was timed on the frog palate, and cough transportability (CTR) was measured in a cough machine. Results: When compared to sputum that had no test agent or ARS added, all agents reduced sputum elasticity G', with surfactant, albuterol, and quaifenesin significant at p < 0.001. As well, quaifenesin (p = 0.006), albuterol (p = 0.003), and surfactant (p = 0.02) decreased surface mech. impedance (frictional adhesiveness) compared to untreated sputum. However, there were no significant changes in wettability, hydration, cohesiveness, or CTR with any agent, and there were no significant changes in the properties of sputum or simulants treated with test agents when compared to those treated with ARS. Guaifenesin irreversibly disrupted mucociliary transport when applied directly to the frog palate. Conclusions: These agents appear to have a minimal direct action on sputum in vitro, suggesting that at the concns. studied, these agents do not have a significant beneficial effect on either the mucociliary transportability or CTR of chronic bronchitis sputum. However, there could be an effect of some of these agents after oral administration, especially if there is a secondary effect of the agent on an effector cell.
- RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
  ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 10 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
L60
AN
         1999:425758 CAPLUS
DN
         131:63456
ΤI
         Composition for treating respiratory and skin diseases, comprising at
         least one leukotriene antagonist and at least one antihistamine
         Jensen, Peder K.; Lorber, Richard R.; Danzig, Melvyn R.; Medeiros, Paul T.
ΙN
PA
         Schering Corporation, USA
SO
         PCT Int. Appl., 22 pp.
         CODEN: PIXXD2
DT
         Patent
        English
LA
FAN.CNT 1
         PATENT NO.
                                            KIND
                                                         DATE
                                                                            APPLICATION NO.
                                                                                                                      DATE
                                            ____
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        WO 9932125
PΤ
                                              A1
                                                         19990701 WO 1998-US26223
                                                                                                                        19981221
               W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK,
                       EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO,
               RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
                       CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
         ZA 9811731
                                                         19990621
                                                                          ZA 1998-11731
                                              Α
                                                                                                                        19981221
         CA 2315721
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                                                                              CA 1998-2315721
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        AU 9919071
                                              A1
                                                         19990712
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        AU 758771
                                              В2
                                                         20030327
        BR 9814417
                                                         20001010
                                                                              BR 1998-14417
                                              Α
                                                                                                                        19981221
         EP 1041990
                                             A1
                                                         20001011
                                                                              EP 1998-963828
                                                                                                                        19981221
                     AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,
                       LT, LV, FI, RO
         JP 2001526232
                                      Т2
                                                         20011218
                                                                               JP 2000-525116
                                                                                                                        19981221
                                                                              NZ 1998-520907
         NZ 520907
                                            Α
                                                         20040528
                                                                                                                        19981221
        NO 2000003288
                                                         20000822
                                                                              NO 2000-3288
                                                                                                                        20000622
                                           Α
PRAI US 1997-68638P
                                             P
                                                         19971223
         US 1998-78638P
                                             Ρ
                                                         19980319
         NZ 1998-504832
                                             A1
                                                         19981221
         WO 1998-US26223
                                              W
                                                         19981221
         The invention relates to a pharmaceutical composition useful in the
AB
         treatment of sneezing, itching runny nose, nasal congestion,
         redness of the eye, tearing, itching of the ears or palate, shortness of
         breath, inflammation of the bronchial mucosa, reduced Forced Expiratory
         Volume In One Second (FEV1), coughs, rash, itchy skin, headaches,
         and aches and pains associated with seasonal allergic rhinitis, perennial
         allergic rhinitis, common colds, otitis, sinusitus, allergy, asthma,
         allergic asthma and/or inflammation, in a mammalian organism in need of
         such treatment. The composition comprises: (i) an effective amount of
         at least one leukotriene antagonist selected from (a) montelukast, (b)
         1-(((R)-(3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(2-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)phenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-(6-(6,7-difluoro-2-quinolinyl)ethenyl)-3-
         (2-hydroxy-2-propyl)phenyl)propyl) thio)methylcyclopropaneacetic acid; (c)
         1-(((1(R)-3 (3-(2-(2,3-dichlorothieno[3, 2-b]pyridin-5-yl)
         -(E) -ethenyl) phenyl) -3-(2-(1-hydroxy-1-methylethyl) phenyl) propyl)
         thio)methyl) cyclopropaneacetic acid; (d) pranlukast; or (f)
         [2-[[2-(4-tert -butyl-2-thiazolyl) -5-benzofuranyl] oxymethyl]phenyl]
         acetic acid; or a pharmaceutically acceptable salt thereof; in admixt.
         with (ii) an effective amount of at least one antihistamine which is
         descarboethoxyloratidine, cetirizine, fexofenadine, ebastine, astemizole,
         norastemizole, epinastine, efletirizine or a pharmaceutically acceptable
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salt thereof.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L60 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     1998:776660 CAPLUS
DN
     130:29242
     Pharmaceutical compositions of flurbiprofen and burn-masking agent for
TI
     treating sore throat
IN
     Barrett, David Michael; Jones, Huw Lyn; Jones, Idwal; Smith, Carl Simon
     The Boots Company PLC, UK
PA
SO
     PCT Int. Appl., 21 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
FAN.CNT 1
     PATENT NO.
                            KIND
                                    DATE
                                                 APPLICATION NO.
                                                                            DATE
                                    _____
                                                                            _____
                            ____
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                                    19981126 WO 1998-EP3180
                             A1
                                                                            19980522
PΙ
     WO 9852545
          W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
          DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, EL, ED, CR, CR, LE, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
              FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
              CM, GA, GN, ML, MR, NE, SN, TD, TG
                                                 AU 1998-79167
     AU 9879167
                             A1
                                    19981211
                                                                             19980522
PRAI GB 1997-10525
                             Α
                                    19970522
     GB 1997-10632
                                    19970522
                             Α
     WO 1998-EP3180
                                    19980522
                             W
     The present invention relates to pharmaceuticals comprising a combination
ΑB
     of flurbiprofen with (a) a therapeutically effective amount of 1 or more
     active ingredients selected from an antihistamine, a cough
     suppressant, a decongestant, an expectorant, a muscle relaxant, a
     centrally acting analgesic, a local anesthetic, an antibacterial, an
     antiviral agent, an antibiotic, an antifungal agents, minerals and
     vitamins and/or (b) a burn-masking amount of an agent which has a warming
     effect on the mucosa of the throat for use in the treatment of
     cold and flu symptoms including particularly sore throat.
     treatment comprises the administration of a pharmaceutical
     masticable or suckable solid dosage form or a liquid or spray which releases
     the flurbiprofen and active ingredient(s) and/or burn-masking agent in the
     oral cavity so as to deliver the active components to the surface of the
     sore throat. Thus, each lozenge contained racemic flurbiprofen 8.75,
     CaCO3 7.5, active ingredient (e.g., antihistamine) q.v.(quantum vis),
     solids from a 1:1 mixture of sugar and liquid glucose to 2350 mg.
RE.CNT 13
                THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L60
    ANSWER 12 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN
    1998:776655 CAPLUS
AN
DN
    130:29238
ΤI
    Pharmaceutical compositions containing NSAIDS
    Barrett, David Michael; Jones, Huw Lyn; Jones, Idwal; Smith, Carl Simon
IN
PA
    The Boots Company PLC, UK
SO
    PCT Int. Appl., 25 pp.
    CODEN: PIXXD2
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO.
                              DATE
                                       APPLICATION NO.
                      KIND
                                                              DATE
    _____
                      ____
                             _____
                                        19981126 WO 1998-EP3179
                       A1
                                                             19980522
PΙ
    WO 9852540
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
        CM, GA, GN, ML, MR, NE, SN, TD, TG
                      A1 19981211 AU 1998-81079
    AU 9881079
                       Α
PRAI GB 1997-10505
                              19970522
    GB 1997-10527
                       Α
                              19970522
                       Α
    GB 1997-10544
                              19970522
    WO 1998-EP3179
                       W
                              19980522
    The present invention relates to the use of an NSAID selected from
AB
    ibuprofen, naproxen, ketoprofen, diclofenac, piroxicam and indomethacin in
    the treatment of the symptoms of cold and flu particularly sore
    throat. The method consists of administration to a patient of a
    pharmaceutical composition in the form of a masticable or suckable solid dosage
    form or a liquid or a spray containing a therapeutically effective amount of
the
    NSAID which releases the NSAID in the oral cavity so as to deliver the
    NSAID to the surface of the sore throat. The composition may also contain (a)
    therapeutically effective amount of 1 or more active ingredients selected
    from an antihistamine, a cough suppressant, a decongestant, an
    expectorant, a muscle relaxant, a centrally acting analgesic, a local
    anesthetic, an antibacterial compound, an antiviral compound, an antibiotic
    compound, an antifungal compound, minerals and vitamins and/or (b) a
    burn-masking amount of an agent which has a warming effect on the mucosa of
    the throat. Thus, a lozenge contained CaCO3 7.5, PVP 1.43, aerosil 0.036,
    Mg stearate 0.18, isomalt 1885, lycasin 440 mg, ketoprofen q.v. (quantum
    vis) and flavoring q.v.
             THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 10
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

L60 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1989:400747 CAPLUS

DN 111:747

TI Antitussive expectorant containing butamirate citrate and quaifenesin

IN Kubec, Frantisek; Srajer, Rajmund; Juchelka, Jiri

PA Czech

SO Czech., 3 pp. CODEN: CZXXA9

DT Patent

LA Czech

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	CS 254358	B1	19880115	CS 1985-2862	19850418
PRAI	CS 1985-2862		19850418		

AB An antitussive expectorant solution contains butamirate citrate (I) 0.05-0.5, licorice extract 0.1-0.2, guaifenesin (II) 1-10 weight %, aroma, propanediol, EtOH, solubilizers, and H2O. An antitussive expectorant contained I 0.40, II 10.00, licorice extract 0.30, aroma (alpine flowers) 0.20, polysorbate 80 0.10, 95% EtOH 30.00, distilled H2O 0.70, and propylene glycol to 100.00 weight%. In clin. tests against various resp. disorders (e.g. acute bronchitis, chronic bronchitis, pharyngitis, laryngitis, etc.), it had good secretomotor and mucokinetic effects (easy and copious expectoration) and improved lung ventilation.

### 10/761,977

L60 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1987:561726 CAPLUS

DN 107:161726

TI Sucrose-free pharmaceutical preparations containing fructose as sweetener for use by diabetics

PA Warner-Lambert Co., USA

SO Neth. Appl., 8 pp. CODEN: NAXXAN

DT Patent

LA Dutch

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	NL 8503539	Α	19870716	NL 1985-3539	19851220
PRAI	NL 1985-3539		19851220		

AB Fructose is useful as a sweetener for drug prepns. for treatment of e.g. coughs and cold symptoms in diabetics. A cough and cold syrup was prepared containing guaifenesin 1.000, diphenhydramine-HCl 0.225, Na citrate 1.000, citric acid 0.200, fructose 50 g and glycerol 6.25 mL/100 mL.

## 10/761,977

=> log y COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	213.10	400.01
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-32.85	-32.85

STN INTERNATIONAL LOGOFF AT 17:56:46 ON 24 MAY 2005

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